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No. 725.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., January 31, 1911.

MONTHLY LIST OF PUBLICATIONS:

[JANUARY, 1911.]

NOTE.—Application for the publications in this list should be made to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C. The editions of many of the publications are necessarily limited, and when the supply is exhausted and no funds are available for procuring additional copies, applicants must be referred to the Superintendent of Documents, Government Printing Office, who has them for sale at a nominal price, under the law of January 12, 1895.

ADVANCE SHEETS, BUREAU OF SOILS.

Soil Survey of Clay County, Mississippi. By E. L. Worthen. Pp. 41, fig. 1, map. (From F. O. Soils, 1909.)

REPORT.

REPRINT.

Report of the Chief of the Bureau of Biological Survey for 1910.

BULLETINS.

NEW.

Preparation of the Cod and Other Salt Fish for the Market; Including a Bacteriological Study of the Causes of Reddening. By A. W. Bitting, Inspector, Bureau of Chemistry. Pp. 63, pls. 6, figs. 4. (Bulletin 133, Bureau of Chemistry.)

Contents and Index to Bulletin 64, Bureau of Entomology—Some Miscellaneous Results of the Work of the Bureau of Entomology—IX. Pp. x, 87–98. (Bulletin 64 [Part XI], Bureau of Entomology.)

Contents and Index to Bulletin 75, Bureau of Entomology—Miscellaneous Papers on Apiculture. Pp. vii, 111-123. (Bulletin 75 [Part VII], Bureau of Entomology.)

Technical Papers on Miscellaneous Forest Insects. I. Contributions toward a Monograph of the Bark-weevils of the Genus Pissodes. By A. D. Hopkins, in Charge of Forest Insect Investigations. Pp. 1–68, pls. 22, figs. 9. (Bulletin 20, Part I, Tech. Series, Bureau of Entomology.)

Report on the St. Francis Valley Drainage Project in Northeastern Arkansas. Part I.—General Report. By Arthur E. Morgan, Supervising Drainage Engineer, assisted by O. G. Baxter, Drainage Engineer. Prepared under the direction of C. G. Elliott, Chief of Drainage Investigations. Pp. 100, pls. 2, figs. 16. (Bulletin 230, Part I, Office of Experiment Stations.)

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Report on the St. Francis Valley Drainage Project in Northeastern Arkansas, Part II. Bench Marks. By Arthur E. Morgan, assisted by O. G. Baxter. Prepared under the direction of C. G. Elliott, Chief of Drainage Investigations. Pp. 58. (Bulletin

230, Part II, Office of Experiment Stations.)

A Report upon the Reclamation of the Overflowed Lands in the Marais des Cygnes Valley, Kansas. By S. H. McCrory, Drainage Engineer, assisted by D. L. Yarnell, Assistant Drainage Engineer. W. J. McEathron, Supervising Drainage Engineer. Prepared under the direction of C. G. Elliott, Chief of Drainage Investigations. Pp. 53, figs. 6. (Bulletin 234, Office of Experiment Stations.)

Experiment Station Record, Vol. XXIV, No. 1, January, 1911. E. W. Allen, Ph.D.,

Editor. Pp. 1-100.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, at \$1 per volume. Current numbers are not sold separately.

Monthly Bulletin (Library Accessions), Vol. 1, No. 11, November, 1910. Pp. 296–316.

(Library.)

Drought Resistance of the Olive in the Southwestern States. By Silas C. Mason, Arboriculturist, Crop Physiology and Breeding Investigations. Pp. 60, pls. 6, figs. 20. (Bulletin 192, Bureau of Plant Industry.)

Dimorphic Branches in Tropical Crop Plants: Cotton, Coffee, Cacao, the Central American Rubber Tree, and the Banana. By O. F. Cook. Pp. 64, pls. 7, figs. 9.

(Bulletin 198, Bureau of Plant Industry.)

The Importance and Improvement of the Grain Sorghums. By Carleton R. Ball, Agronomist in Charge of Grain-sorghum Investigations. Pp. 45, figs. 13. (Bulletin 203, Bureau of Plant Industry.)

REPRINTS.

The Mexican Cotton Boll Weevil. (Bulletin 51, Bureau of Entomology.)

Tests of Sprays against the European Fruit Lecanium and the European Pear Scale. (Bulletin 80, Part VIII, Bureau of Entomology.)

Boric Acid and Borax. (Bulletin 84, Part I, Bureau of Chemistry.)

School Gardens. (Bulletin 160, Office of Experiment Stations.)

Drainage of Irrigated Lands in the San Joaquin Valley, California. (Bulletin 217, Office of Experiment Stations.)

Forest Trees of the Pacific Slope. (Miscellaneous, Forest Service.)

Varieties of American Upland Cotton. (Bulletin 163, Bureau of Plant Industry.)
Agricultural Graphics. (Bulletin 78, Bureau of Statistics.)

CIRCULARS.

NEW.

Amendment 2, Rule 8, Revision 2.—To Prevent the Spread of Lip-and-Leg Ulceration (Necrobacillosis) in Sheep. P. 1. (Amend. 2 to B. A. I. Order 169.)

Identification of Food Colors. A Tentative Report on the Solubility and Extraction of Certain Colors and the Color Reaction of Dyed Fiber and Aqueous and Sulphuric Acid Solutions. By H. M. Loomis, Acting Chief, Seattle Food and Drug Inspection Laboratory. Pp. 69. (Circular 63, Bureau of Chemistry.)

How to Control the Pear Thrips. By S. W. Foster and P. R. Jones, Agents and Experts.

Pp. 24, figs. 14. (Circular 131, Bureau of Entomology.)

Secondary Course in Animal Production. By H. R. Smith, Animal Husbandry Department, University of Nebraska. Pp. 56. (Circular 100, Office of Experiment Stations.)

The Drainage Situation in the Lower Rio Grande Valley, Texas. By L. L. Hidinger, Drainage Engineer. Prepared under the direction of C. G. Elliott, Chief of Drainage Investigations. Pp. 36, figs. 3. (Circular 103, Office of Experiment Stations.)

A Preliminary Report on the Drainage of the Fifth Louisiana Levee District, Comprising the Parishes of East Carroll, Madison, Tensas, and Concordia. By A. E. Morgan, S. H. McCrory, and L. L. Hidinger, Drainage Engineers. Prepared under the direction of C. G. Elliott, Chief of Drainage Investigations. Pp. 35, figs. 2. (Circular 104, Office of Experiment Stations.)

The Card Index of Experiment Station Literature. Pp. 2. (Circular 107, Office of

Experiment Stations.)

Red Oak (Quercus rubra). Pp. 3. (Circular 58, Revised, Forest Service.)

Field Instructions for Farmers' Cooperative Demonstration Work. Pp. 8. (Document 543, Bureau of Plant Industry.)

The Production of Cotton under Boll-weevil Conditions. Pp. 8. (Document 619, Bureau of Plant Industry.)

Farm Fertilizers. Pp. 8. (Document 631, Bureau of Plant Industry.)

Distribution of Cotton Seed in 1911. Pp. 13. (Document 633, Bureau of Plant Industry.)

Bitumens and Their Essential Constituents for Road Construction and Maintenance. By Provost Hubbard, Chemist, Office of Public Roads. Pp. 16. (Circular 93, Office of Public Roads.)

Publications for Sale. (Revised to October 15, 1910.) Pp. 106. (Circular 3, Division of Publications.)

Publications of the Bureau of Chemistry. Pp. 5. (Circular 7, Division of Publitions.)

Publications of the Bureau of Biological Survey. Pp. 3. (Circular 8, Division of Publications.)

Monthly List of Publications, December, 1910. Pp. 4. (Document 722, Division of Publications.)

Crop Reporter, Vol. 13, No. 1, January, 1911. Pp. 1–8. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

REPRINTS.

Rules and Regulations for the Enforcement of the Food and Drugs Act. (Circular 21, Office of the Secretary.)

Rules and Regulations for Carrying out the Provisions of the Insecticide Act of 1910. (Circular 34, Office of the Secretary.)

The Carpet Beetle, or "Buffalo Moth." (Circular 5, Bureau of Entomology.)

The Fruit-tree Bark-beetle. (Circluar 29, Division of Entomology.)

Preparations for Winter Fumigation for the Citrus White Fly. (Circular 111, Bureau of Entomology.)

Insects Which Kill Forest Trees. (Circular 125, Bureau of Entomology.)

Insect Injuries to the Wood of Living Trees. (Circular 126, Bureau of Entomology.)
Free Publications of the Department of Agriculture Classified for the Use of Teachers.
(Circular 94, Office of Experiment Stations.)

The Timber Supply of the United States. (Circular 166, Forest Service.)

SEPARATE FROM B. A. I. ANNUAL REPORT, 1908.

REPRINT.

The Control of Hog Cholera by Serum Immunization.

PUBLICATIONS OF THE WEATHER BUREAU.

Frost and Temperature Conditions in the Cranberry Marshes of Wisconsin. Prepared under the direction of Willis L. Moore, Chief of Weather Bureau, by Henry J. Cox, Professor of Meteorology. Pp. 121, figs. 31. (Bulletin T, Weather Bureau.)

Snow and Ice Bulletins for January 2, 9, 16, 23, and 30. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price 25 cents a year.

For educational purposes, or for reproduction for use in newspapers or periodicals, photographs of anything which has appeared in any publication of this Department can be furnished to applicants. A charge will be made for these photographs which covers, approximately, the cost of the material, and which will be made known on application. Photographs of all the ordinary kinds are included in this offer.

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Jos. A. Arnold, Editor and Chief.

Approved:
JAMES WILSON,
Secretary of Agriculture.

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United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., February 28, 1911.

MONTHLY LIST OF PUBLICATIONS.

[FEBRUARY, 1911.]

NOTE.—Application for the publications in this list should be made to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C. The editions of many of the publications are necessarily limited, and when the supply is exhausted and no funds are available for procuring additional copies, applicants must be referred to the Superintendent of Documents, Government Printing Office, who has them for sale at a nominal price, under the law of January 12, 1895.

ADVANCE SHEETS, BUREAU OF SOILS.

Soil Survey of the Woodland Area, California. By C. W. Mann, J. F. Warner, H. L. Westover, and James E. Ferguson. Pp. 57, fig. 1, maps 2.

Reconnoissance Soil Survey of Western South Dakota. By George N. Coffey and Party. Pp. 80, pls. 7, figs. 2, map.

Reconnoissance Soil Survey of the Eastern Part of the Puget Sound Basin, Washington. By A. W. Mangum and Party. Pp. 90, pls. 5, figs. 8, maps 4.

BULLETINS.

NEW.

A Biometrical Study of Egg Production in the Domestic Fowl. II. Seasonal Distribution of Egg Production. By Raymond Pearl, Expert in Poultry Breeding, Maine Agricultural Experiment Station, and Frank M. Surface, Associate Biologist, Maine Agricultural Experiment Station. Pp. 170, figs. 30. (Bulletin 110, Part 2, Bureau of Animal Industry.)

Cattle Breeders Associations in Denmark. By Frederik Rasmussen, Professor of Dairying, New Hampshire College of Agriculture and Mechanic Arts. Pp. 40, pls. 2. (Bulletin 129, Bureau of Animal Industry.)

Beef Production in Alabama. I. Cost of Raising Cattle. II. Wintering Steers Preparatory to Summer Fattening on Pasture. III. Fattening Cattle on Pasture. By Dan T. Gray, Professor of Animal Husbandry, Alabama Polytechnic Institute, and W. F. Ward, Junior Animal Husbandman, Bureau of Animal Industry. Pp. 47, pls. 2. (Bulletin 131, Bureau of Animal Industry.)

Notes on Various Truck-crop Insects. By F. H. Chittenden, in Charge of Truck Crop and Stored Product Insect Investigations. Pp. 85–93, fig. 1. (Bulletin 82, Part VII, Bureau of Entomology.)

tin 82, Part VII, Bureau of Entomology.)

Organization Lists of the Agricultural Colleges and Experiment Stations in the United States. Pp. 100. (Bulletin 233, Office of Experiment Stations.) Experiment Station Record, Vol. XXIV, No. 2, February, 1911. E. W. Allen,

Ph. D., Editor. Pp. 101-200.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, at \$1 per volume. Current numbers are not sold separately.

Monthly Bulletin (Library Accessions), Vol. 1, No. 12, December, 1910. Pp. (Library.)

Summer Apples in the Middle Atlantic States. By H. P. Gould, Pomologist in Charge of Fruit District Investigations. Pp. 96, pls. 4, figs. 7. (Bulletin 194, Bureau of Plant Industry.)

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A Review of the Phosphate Fields of Florida. By William H. Waggaman, Scientist in Physical and Chemical Investigations. Pp. 23. (Bulletin 76, Bureau of Soils.)

REPRINTS.

The Bacteriology of Commercially Pasteurized and Raw Market Milk. (Bulletin 126, Bureau of Animal Industry.)

The Relation of Sparrows to Agriculture. (Bulletin 15, Division of Biological Survey.)

The Leafhoppers of the Sugar Beet and Their Relation to the "Curly-leaf" Condition. (Bulletin 66, Part IV, Bureau of Entomology.)

The Codling Moth in the Ozarks. (Bulletin 80, Part I, Bureau of Entomology.) Preventive and Remedial Work against Mosquitoes. (Bulletin 88, Bureau of Entomology.)

Mechanical Tests of Pumping Plants in California. (Bulletin 181, Office of Experiment Stations.)

Some Effects of a Harmful Organic Soil Constituent. (Bulletin 70, Bureau of Soils.)

Imports of Farm and Forest Products, 1907-1909, by Countries from Which Consigned. (Bulletin 82, Bureau of Statistics.)

CIRCULARS.

NEW.

Amendment to Regulation 5. Pp. 2. (Food Inspection Decision 130, Office of the Secretary.)

The Digestibility of Cheese. By C. F. Doane, Assistant Dairyman, Dairy Division, in cooperation with the Office of Experiment Stations. Pp. 22. (Circular 166, Bureau of Animal Industry.)

A Note on the Feeding Value of Coconut and Peanut Meals for Horses. By George M. Rommel, Chief of Animal Husbandry Division, and W. F. Hammond, Superintendent Morgan Horse Farm. Pp. 2. (Circular 168, Bureau of Animal Industry.)

Annual Report of the Governor of Alaska on the Alaska Game Law, 1910. By Walter E. Clark, Governor of Alaska. Pp. 8. (Circular 77, Bureau of Biological Survey.)

Extracts from the Proceedings of the Association of Official Agricultural Chemists, 1910. Pp. 27. (Circular 66, Bureau of Chemistry.)

A Method for the Determination of Tin in Canned Foods. By Herman Schreiber and W. C. Taber, Assistant Chemists. Pp. 9. (Circular 67, Bureau of Chemistry.)

Tomato Ketchup under the Microscope; with Practical Suggestions to Insure a Cleanly Product. By B. J. Howard, Chief, Microchemical Laboratory.

Pp. 14. (Circular 68, Bureau of Chemistry.)

The Periodical Cicada in 1911. By C. L. Marlatt, Entomologist and Assistant Chief of Bureau. Pp. 6, figs. 4. (Circular 132, Bureau of Entomology.)

The American System of Agricultural Education. By A. C. True and Dick J. Crosby, of the Office of Experiment Stations. Pp. 28, pls. 8. (Circular 106. Office of Experiment Stations.)

The Use Book-Water Power. Pp. 86. (Miscellaneous, Forest Service.) The Distinguishing Characters of the Seeds of Quack-grass and of certain Wheat-grasses. By F. H. Hillman, Assistant Botanist, Seed Laboratory. Pp. 9, figs. 7. (Circular 73, Bureau of Plant Industry.)

Publications, Office of the Secretary, Office of the Solicitor, and the Division of Publications. Pp. 4. (Circular 9, Division of Publications.)

Publications of the Office of Public Roads. Pp. 3. (Circular 10, Division of Publications.)

Monthly List of Publications, January, 1911. Pp. 4. (Document 725, Division of Publications.)

Crop Reporter, Vol. 13, No. 2, February, 1911. Pp. 9-16. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

REPRINTS.

Rules and Regulations for the Enforcement of the Food and Drugs Act. (Circular 21, Office of the Secretary.)

A Review of Some Experimental Work in Pig Feeding. (Circular 63, Bureau of Animal Industry.)

Glanders and Farcy. (Circular 78, Bureau of Animal Industry.)

The Tapeworms of American Chickens and Turkeys. (Circular 85, Bureau of Animal Industry.)

Foot-rot of Sheep. (Circular 94, Bureau of Animal Industry.)

Instructions for Preparing and Shipping Pathological Specimens for Diagnosis. (Circular 123, Bureau of Animal Industry.)

Infectious Anemia or Swamp Fever of Horses. (Circular 138, Bureau of Animal Industry.)

The Egg Trade of the United States. (Circular 140, Bureau of Animal Industry.)

Some Important Factors in the Production of Sanitary Milk. (Circular 142, Bureau of Animal Industry.)

Competitive Exhibitions of Milk and Cream. (Circular 151, Bureau of Animal Industry.)

The Regeneration of the Morgan Horse. (Circular 163, Bureau of Animal Industry.)

Paper-making Materials and Their Conservation. (Circular 41, Bureau of Chemistry.)

The Value of Peaches as Vinegar Stock. (Circular 51, Bureau of Chemistry.)
The Army Worm. (Circular 4, Bureau of Entomology.)

House Ants. (Circular 34, Bureau of Entomology.)

The Brood Diseases of Bees. (Circular 79, Bureau of Entomology.)

The Chinch Bug. (Circular 113, Bureau of Entomology.)

Insects Injurious to the Wood of Dying and Dead Trees. (Circular 127, Bureau of Entomology.)

Insects in Their Relation to the Reduction of Future Supplies of Timber, and General Principles of Control. (Circular 129, Bureau of Entomology.)

Swamp and Overflowed Lands in the United States. Ownership and Reclamation. (Circular 76, Office of Experiment Stations.)

Black Walnut. (Circular 88, Forest Service.) Yellow Poplar. (Circular 93, Forest Service.) Black Cherry. (Circular 94, Forest Service.)

Fruit Growing for Home Use in the Central and Southern Great Plains. (Cir-

cular 51, Bureau of Plant Industry.)

The Substitution of Lime-sulphur Preparations for Bordeaux Mixture in the Treatment of Apple Diseases. (Circular 54, Bureau of Plant Industry.)

Handling Wheat from Field to Mill. (Circular 68, Bureau of Plant Industry.)

Legume Inoculation and the Litmus Reaction of Soils. (Circular 71, Bureau of Plant Industry.)

A Moisture Tester for Grain and Other Substances and How to Use It. (Circular 72, Bureau of Plant Industry.)

Organization of Department of Agriculture, 1910. (Circular 1, Division of Publications.)

Money Value of Good Roads to Farmers. (Circular 23, Office of Roads Inquiry.)

Tar and Oil for Road Improvement: Report of Progress of Experiments at Jackson, Tenn. (Circular 47, Office of Public Roads.)

FARMERS' BULLETINS.

NEW.

Testing Farm Seeds in the Home and in the Rural School. By F. H. Hillman, Assistant Botanist, Seed Laboratory, Bureau of Plant Industry. Pp. 47, figs. 32. (Farmers' Bulletin 428.)

This bulletin describes the seed-trade condition, the seed used as adulterants, methods and apparatus used in making tests, etc.

Industrial Alcohol: Sources and Manufacture. By H. W. Wiley, Chief, Bureau of Chemistry, revised by H. E. Sawyer, Fermentation Chemist. Pp. 32, figs. 3. (Farmers' Bulletin 429.)

This bulletin defines the terms "alcohol" and "denatured alcohol," gives the denatured alcohol law, describes denaturants used and methods of denaturing, the materials which may serve as sources of alcohol, the manufacture of alcohol and cost of production, governmental control of denatured alcohol distillery, etc. This supersedes Farmers' Bulletin 268.

Experiment Station Work LXI. Compiled from the publications of the agricultural experiment stations. Pp. 24, figs. 14. (Farmers' Bulletin 430.)

Contents.—Unusual v, standard fertilizers—Symptoms of disease in plants—Premature dropping of pigs—Condimental feeds—Feeding the dairy calf—Defects in cottage cheese—The Iowa silo.

SEPARATES.

REPRINTS.

The Codling Moth or Apple Worm. (Separate 460, Yearbook, 1907.) Information in regard to Fabricated Wire Fences and Hints to Purchasers. (Separate 513, Yearbook, 1909.)

Agricultural Statistics, 1909. (Separate 524, Yearbook, 1909.) Experiment Station Work with Peaches. (Document 1026, from An. Report,

Office of Experiment Stations, 1906.)

PUBLICATIONS OF THE WEATHER BUREAU.

Monthly Weather Review, Vol. 38, No. 11, November, 1910. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 1625–1773, figs. 3, maps 26, charts 7. (Document 446, Weather Bureau.) Price 35 cents; \$4 a year.

Snow and Ice Bulletins for February 7, 14, 21, and 28. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative

observers. Price 25 cents a year.

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Jos. A. ARNOLD, Editor and Chiet.

Approved:

JAMES WILSON, Secretary of Agriculture.

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United States Department of Agriculture, DIVISION OF PUBLICATIONS.

Washington, D. C., March 31, 1911.

MONTHLY LIST OF PUBLICATIONS.

[MARCH, 1911.]

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ADVANCE SHEET, BUREAU OF SOILS.

Soil Survey of Washington County, New York. By M. Earl Carr and George A. Crabb, of the U.S. Department of Agriculture, and V.J. Frost and D.W. Hallock, of the New York State College of Agriculture. Pp. 59, fig. 1, maps 2.

REPORT.

NEW.

Report of the Secretary of Agriculture. 1910. (Abridged edition.) Pp. 98. (Report 93.)

BULLETINS.

NEW.

Index Catalogue of Medical and Veterinary Zoology. Part 33. (Authors: W to Werbitzki.) By Ch. Wardell Stiles, Consulting Zoologist, Bureau of Animal Industry, and Albert Hassall, Assistant Zoologist, Bureau of Animal Industry. Pp. 2509-2582. (Bulletin 39, Part 33, Bureau of Animal Industry.)

A Bacteriological Study of Ham Souring. By C. N. McBryde, Senior Bacteriologist, Biochemic Division. Pp. 55, pls. 4, figs. 5. (Bulletin 132, Bureau of

Animal Industry.)

Some Miscellaneous Results of the Work of the Bureau of Entomology—IX. I. The Mexican Conchuela in Western Texas in 1905. By A. W. Morrill, Special Field Agent. II. Notes on the Economic Importance of Sowbugs. By W. Dwight Pierce, Special Field Agent. III. Notes on "Punkies." By F. C. Pratt, Special Field Agent. IV. An Injurious North American Species of Apion, with Notes on Related Forms. By F. H. Chittenden, Entomologist in Charge of Breeding Experiments. V. Insects Injurious to the Loco Weeds. By F. H. Chittenden. VI. Greenhouse Thrips. By H. M. Russell, Agent and VII. New Breeding Records of the Coffee-bean Weevil. By E. S. Tucker, Special Field Agent. VIII. The Woolly White-fly: A New Enemy of the Florida Orange. By E. A. Back, Agent and Expert. IX. Notes on a Colorado Ant. By H. O. Marsh, Agent and Expert. X. The Pecan Cigar - Case-bearer. By H. M. Russell, Agent and Expert. Pp. 98, pls. 7, figs. 24. (Bulletin 64, Bureau of Entomology.)

Miscellaneous Papers on Apiculture. I. Production and Care of Extracted Honey. By E. F. Phillips, in Charge of Apiculture. Methods of Honey Testing for Bee Keepers. By C. A. Browne, Chief Sugar Laboratory, Bureau of Chemistry. II. Wax Moths and American Foul Brood. By E. F. Phillips. III. Bee Diseases in Massachusetts. By Burton N. Gates, Expert in Apiculture. IV. The Relation of the Etiology (Cause) of Bee Diseases to the Treatment. By G. F. White, Expert in Bacteriology. V. A Brief Survey of Hawaiian Bee Keeping. By E. F. Phillips. VI. The Status of Apiculture in the United States. By E. F. Phillips. VII. Bee Keeping in Massachusetts. By Burton N. Gates. Pp. 123, pls. 10, figs. 2. (Bulletin 75, Bureau of Entemology)

of Entomology.)

The One-spray Method in the Control of the Codling Moth and the Plum Curculio. By A. L. Quaintance, in Charge of Deciduous Fruit Insect Investigations, and E. L. Jenne, E. W. Scott, and R. W. Braucher, Engaged in Deciduous Fruit Insect Investigations. Pp. 113–146, pls. 2, figs. 5. (Bulletin 80, Part 7, Bureau of Entomology.)

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A List of Insects Affecting Stored Cereals. The Mexican Grain Beetle. The Siamese Grain Beetle. By F. H. Chittenden, in Charge of Truck Crop and Stored Product Insect Investigations. Pp. 1-18, figs. 2. (Bulletin 96, Part 1, Bureau of Entomology.)

The Orange Thrips: A Report of Progress for the Years 1909 and 1910. By P. R. Jones and J. R. Horton, Agents and Experts, Deciduous Fruit Insect Investigations. Pp. 1-16, pls. 3, figs. 2. (Bulletin 99, Part 1, Bureau of

Entomology.)

Investigations into the Habits of Certain Sarcophagidæ. By T. L. Patterson, Assistant in Biology, Yale University, with an Introduction by W. F. Fiske, in Charge of the Gipsy Moth Parasite Laboratory, Bureau of Entomology. Pp. 25-32. (Bulletin 19, Part 3, Technical Series, Bureau of Entomology.)

The Genotypes of the Sawflies and Woodwasps, or the Superfamily Tenthredinoidea. By S. A. Rohwer, Agent and Expert. Pp. 69-109. (Bulletin 20,

Part 2, Technical Series, Bureau of Entomology.)

Monthly Bulletin (Library Accessions), Vol. 2, No. 1, January, 1911. Pp. 1-30.

(Library.)

Natural Vegetation as an Indicator of the Capabilities of Land for Crop Production in the Great Plains Area. By H. L. Shantz, Physiologist, Alkali and Drought Resistant Plant Breeding Investigations. Pp. 100, pls. 6, figs. 23. (Bulletin 201, Bureau of Plant Industry.)

The Seedling Inarch and Nurse-plant Methods of Propagation. By George W. Oliver, Plant Propagator. Pp. 43, pls. 9, figs. 15. (Bulletin 202, Bureau

of Plant Industry.)

Agricultural Explorations in the Fruit and Nut Orchards of China. By Frank N. Meyer, Agricultural Explorer, Foreign Seed and Plant Introduction. Pp. 62, pls. 6, figs. 15. (Bulletin 204, Bureau of Plant Industry.)

Seeds and Plants Imported During the Period from October 1 to December 31, 1909: Inventory No. 21, Nos. 26048 to 26470. Pp. 54. (Bulletin 205, Bureau

of Plant Industry.)

Crown-gall of Plants: Its Cause and Remedy. By Erwin F. Smith, Pathologist in Charge of Laboratory of Plant Pathology; Nellie A. Brown, Scientific Assistant; and C. O. Townsend, formerly Pathologist in Charge of Sugar-beet Investigations. Pp. 215, pls. 36, figs. 3. (Bulletin 213, Bureau of Plant Industry.)

By Oswald Schreiner, Scientist in Charge of Fertility Investiga-Lawn Soils. tions, and J. J. Skinner, Scientist in Fertility Investigations. Pp. 55, pls. 8,

figs. 3. (Bulletin 75, Bureau of Soils.)

CIRCULARS.

NEW.

Blackleg: Its Nature, Cause, and Prevention. By Victor A. Nörgaard. Revised by John R. Mohler, Chief of the Pathological Division. Pp. 23, fig. 1. (Circular 31, revised, Bureau of Animal Industry.)
The Control of Bovine Tuberculosis. Report of the International Commission

of the American Veterinary Medical Association, September, 1910. Pp. 27.

(Circular 175, Bureau of Animal Industry.)

A System of Poultry Accounting. By Rob R. Slocum, Animal Husbandman in Poultry Investigations. Pp. 6. (Circular 176, Bureau of Animal Industry.)

Rule 1, Revision 7. To Prevent the Spread of Splenetic, Southern, or Texas Fever in Cattle. Pp. 11. (Order 178, Bureau of Animal Industry.)

Improvements in the Knorr Fat Extraction Apparatus. By H. L. Walter and C. E. Goodrich, Assistant Chemists, Miscellaneous Division. Pp. 4, figs. 4. (Circular 69, Bureau of Chemistry.)

The Comparative Rate of Decomposition in Drawn and Undrawn Market Poultry. By M. E. Pennington, Chief, Research Laboratory, with the collaboration of Evelyn Witmer and H. C. Pierce. Pp. 22, figs. 6. (Circular 70, Bureau

of Chemistry.)

Damage to Telephone and Telegraph Poles by Wood-boring Insects. By T. E. Snyder, Agent and Expert. Pp. 6, figs. 3. (Circular 134, Bureau of Entomology.)

The Asparagus Miner. By F. H. Chittenden, in charge of Truck Crop and Stored Products Insect Investigations. Pp. 5, figs. 2. (Circular 135, Bureau of Entomology.)

The Distribution of the Rocky Mountain Spotter-fever Tick. By F. C. Bishopp, Agent and Expert. Pp. 4, fig. 1. (Circular 136, Bureau of Entomology.)

Second Progress Report of Cooperative Irrigation Investigations in California. By Frank Adams, Irrigation Manager in Charge of Work in California. Pp. (Circular 108, Office of Experiment Stations.)

Agricultural Fair Associations and Their Utilization in Agricultural Education and Improvement. By John Hamilton, Farmers' Institute Specialist, Office of Experiment Stations. Pp. 23. (Circular 109, Office of Experiment Sta-

tions.)

Food Customs and Diet in American Homes. By C. F. Langworthy, Expert in Charge of Nutrition Investigations, Office of Experiment Stations. Pp. 32. (Circular 110, Office of Experiment Stations.)

The Sulphur Bleaching of Commercial Oats and Barley. By Le Roy M. Smith, Assistant, Office of Grain Standardization. Pp. 13, figs. 4. (Circular 74,

Bureau of Plant Industry.)

Agricultural Survey of Four Townships in southern New Hampshire. By E. H. Thomson, Expert, Office of Farm Management, in cooperation with the New Hampshire College Agricultural Experiment Station. Pp. 19, figs. 3. (Circular 75, Bureau of Plant Industry.)

The Relation of Crown-gall to Legume Inoculation. By Karl F. Kellerman, Physiologist in Charge of Soil-bacteriology and Water-purification Investiga-

tions. Pp. 6, pl. 1. (Circular 76, Bureau of Plant Industry.)

Boys' Demonstration Work: The Corn Clubs. Pp. 7, figs. 5. (Document 644, Bureau of Plant Industry.)

Publications of the Forest Service. Pp. 6. (Circular 11, Division of Publica-

Publications of the Bureau of Statistics. Pp. 5. (Circular 12, Division of Publications.)

Publications of the Bureau of Plant Industry. Pp. 16. (Circular 13, Division of Publications.)

Publications of the Bureau of Soils. Pp. 6. (Circular 14, Division of Publications.)

Publications of the Bureau of Animal Industry. Pp. 8. (Circular 15, Division of Publications.)

Publications of the Bureau of Entomology. Pp. 9. (Circular 16, Division of Publications.)

Publications of the Office of Experiment Stations. Pp. 12. (Circular 17, Division of Publications.)

Publications of the Library. Pp. 3. (Circular 18, Division of Publications.) Monthly List of Publications, February, 1911. Pp. 4. (Document 728, Division of Publications.)

Crop Reporter, Vol. 13, No. 3. March, 1911. Pp. 17-24. (Bureau of Statistics.) The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

FARMERS' BULLETINS.

NEW.

The Peanut. By W. R. Beattie, Assistant Horticulturist, Bureau of Plant

Industry. Pp. 39, figs. 20. (Farmers' Bulletin 431.)

The purpose of this bulletin is to give full directions for growing the crop, together with some uses of the peanut. It also describes the soil and climatic requirements, methods of harvesting, its value as a forage crop, insects and diseases affecting the plant, etc. This bulletin is issued to supersede Farmers' Bulletin 356, on the same subject.

How a City Family Managed a Farm. By J. H. Arnold, Scientific Assistant,

Office of Farm Management. Pp. 28, figs. 7. (Farmers' Bulletin 432.)
This bulletin is a record of the experiences and successful methods of management of a run-down farm of 380 acres in the Shenandoah Valley by a city-bred family. The bulletin also contains suggestions in regard to relations of employer to laborer, and the housework problem. the housework problem.

The Home Production of Onion Seed and Sets. By W. R. Beattie, Assistant Horticulturist, Bureau of Plant Industry. Pp. 24, figs. 12. (Farmers' Bulletin 434.)

This bulletin contains directions for the selection, care, and planting of the onion bulbs for seed production; the cultivation, harvesting, and yield of the crop; the preparation of the land and sowing the seed for the production of onion sets, and describes diseases and insect enemies of the onion.

Experiment Station Work LXII. (Compiled from the Publications of the Agricultural Experiment Stations.) Pp. 24, figs. 6. (Farmers' Bulletin 435.)

CONTENTS: Water required for crops—Burning lime on the farm—Tomatoes for canning—Lime sulphur as a fungicide—Market classes and grades of meat—Lice on poultry—Neufchatel cheese.

Spraying Peaches for the Control of Brown-rot, Scab, and Curculio. By W. M. Scott of the Bureau of Plant Industry, and A. L. Quaintance of the Bureau of Entomology. Pp. 40, figs. 14. (Farmers' Bulletin 440.)

This bulletin contains information as to the nature, causes, and economic importance of the brown-rot and scab of peaches, describes the character of injuries and life habits of the curculio, and gives suggestions and results of experiments in the treatment and prevention of damage by these pests of the peach orchard.

SEPARATES.

NEW.

(From Twenty-sixth Annual Report of Bureau of Animal Industry, 1909.)

The Use of Metallic Containers for Edible Fats and Oils. By James A. Emery, Senior Biochemist, Biochemic Division. Pp. 265–282.

The Viability of Tubercle Bacilli in Butter. By John R. Mohler, Henry J. Washburn, and Lore A. Rogers. The Viability of Tubercle Bacilli in Cheese. By John R. Mohler, Henry J. Washburn, and C. F. Doane. Pp. 179–191, fig. 1.

Medical Milk Commissions and Bovine Tuberculosis. By E. C. Schroeder, Superintendent of Bureau Experiment Station. Pp. 193–200.

PUBLICATIONS OF THE WEATHER BUREAU.

[Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted.]

Snow and Ice Bulletins for March 7, 14, 21, 28. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau Stations, supplemented by reports from selected cooperative observers. Price 25 cents a year.

National Monthly Weather Bulletin, No. 2, for February, 1911, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. Price 25 cents a year.

For educational purposes, or for reproduction for use in newspapers or periodicals, photographs of anything which has appeared in any publication of this Department can be furnished to applicants. A charge will be made for these photographs which covers, approximately, the cost of the material, and which will be made known on application. Photographs of all the ordinary kinds are included in this offer.

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It is expected that due credit will be given to the Department of Agriculture when these illustrations are used.

Jos. A. Arnold,

Editor and Chief.

Approved:

JAMES WILSON, Secretary of Agriculture.

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No. 731.

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

Washington, D. C., April 30, 1911.

MONTHLY LIST OF PUBLICATIONS.

[APRIL, 1911.]

NOTE.—Application for the publications in this list should be made to the Editor and Chief of the Division of Publications. United States Department of Agriculture, Washington, D. C. The editions of many of the publications are necessarily limited, and when the supply is exhausted and no funds are available for procuring additional copies, applicants must be referred to the Superintendent of Documents, Government Printing Office, who has them for sale at a nominal price, under the law of January 12, 1895.

ADVANCE SHEETS, BUREAU OF SOILS.

Soil Survey of Scotland County, North Carolina. By R. B. Hardison, J. W. Nelson

and David D. Long. Pp. 32, fig. 1, map.

A Reconnoissance Soil Survey of Southwestern Pennsylvania. By Henry J. Wilder, of the United States Department of Agriculture, and Charles F. Shaw, of the Pennsylvania Agricultural Experiment Station. Pp. 69, figs. 4, map.

REPORTS.

NEW.

Annual Reports of the Department of Agriculture for the Year Ended June 30, 1910. Pp. 953. (Report of the Secretary with Reports of Heads of the Several Branches of the Department.) Not available for distribution.

Twenty-sixth Annual Report of the Bureau of Animal Industry, for the year 1909.

Pp. 407, pls. 15, figs. 10.

BULLETINS.

NEW.

The Determination of Nicotin in Nicotin Solutions and Tobacco Extracts. By Robert M. Chapin, Senior Biochemist, Biochemic Division. Pp. 22. (Bulletin 133, Bureau of Animal Industry.)

Bureau of Animal Industry.)

The Estimation of Total Solids in Milk by the Use of Formulas. By R. H. Shaw, Dairy Chemist, Dairy Division, and C. H. Eckles, Professor of Dairy Husbandry, University of Missouri. Pp. 31, fig. 1. (Bulletin 134, Bureau of Animal Industry.)

A Comparative Study of Methods of Examining Feces for Evidences of Parasitism. By Maurice C. Hall, Assistant Zoologist, Zoological Division. Pp. 36, fig. 1. (Bulletin 135, Bureau of Animal Industry.)

The Diagnosis of Glanders by Complement Fixation. By John R. Mohler, Chief of the Pathological Division, and Adolph Eichorn, Bacteriologist, Pathological Division. Pp. 31, pls. 5. (Bulletin 136, Bureau of Animal Industry.)

A Systematic Synopsis of the Muskrats. By N. Hollister, Assistant Curator of Mammals, United States National Museum. Pp. 47, pls. 6. (North American Fauna 32, Bureau of Biological Survey.)

Commercial Turpentines: Their Quality and Methods for Their Examination. By F. P. Veitch, Chief, Leather and Paper Laboratory, and M. G. Donk, Assistant

F. P. Veitch, Chief, Leather and Paper Laboratory, and M. G. Donk, Assistant Chemist. Pp. 46, fig. 1. (Bulletin 135, Bureau of Chemistry.)

Shellfish Contamination from Sewage-polluted Waters and from Other Sources. By

George Whitfield Stiles, jr., in Charge, Bacteriological-Chemical Investigations. Pp. 53, figs. 15. (Bulletin 136, Bureau of Chemistry.)

The Lesser Clover-leaf Weevil. By F. M. Webster, in Charge of Cereal and Forage Insect Investigations. Pp. 1-12, figs. 8. (Bulletin 85, Part 1, revised, Bureau of

Entomology.)
The Sorghum Midge. By W. Harper Dean, Agent and Expert. Pp. 39-58, pls. 2,

figs. 12. (Bulletin 85, Part 4, revised, Bureau of Entomology.)

The Timothy Stem-borer, a New Timothy Insect. By W. J. Phillips, Entomological

Assistant. Pp. 1-9, pl. 1, figs. 4. (Bulletin 95, Part 1, Bureau of Entomology.) The Maize Billbug. By E. O. G. Kelly, Entomological Assistant. Pp. 11-22, pls. 2, figs. 6. (Bulletin 95, Part 2, Bureau of Entomology.)

The Lesser Grain-borer. The Larger Grain-borer. By F. H. Chittenden, in Charge of Truck Crop and Stored Product Insect Investigations. Pp. 29-52, figs. 4. (Bulletin 96, Part 3, Bureau of Entomology.)

Spraying Experiments against the Grape Leafhopper in the Lake Erie Valley. By Fred Johnson, Agent and Expert. Pp. 1-12, pls. 2, figs. 5. (Bulletin 97, Part 1,

Bureau of Entomology.)

Life History of the Codling Moth and Its Control on Pears in California. By S. W. Foster, Agent and Expert, Deciduous Fruit Insect Investigations. Pp. 13-51, pl. 1,

figs. 10. (Bulletin 97, Part 2, Bureau of Entomology.)

The Broad-nosed Grain Weevil. The Long-headed Flour Beetle. By F. H. Chittenden, in Charge of Truck Crop and Stored Product Insect Investigations. Pp.

19-28, figs. 4. (Bulletin 96, Part 2, Bureau of Entomology.) Eucalypts in Florida. By Raphael Zon, Chief of Silvics, and John M. Briscoe, For-

est Assistant. Pp. 47, pls. 5, fig. 1. (Bulletin 87, Forest Service.) Experiment Station Record, Vol. XXIV, No. 3, March, 1911. E. W. Allen, Ph. D., Editor. Pp. 201–300.

Same, Vol. XXIV, No. 4, Abstract Number. Pp. 301-400.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, eight numbers each, at \$1 per volume. Current numbers are not sold separately.

Monthly Bulletin of the Library (Library Accessions). Vol. 2, No. 2, February,

1911. Pp. 33-60.
Same, Vol. 2, No. 3, March, 1911. Pp. 61-90.
Seeds and Plants Imported during the Period from April 1 to June 30, 1910.
Inventory No. 23; Nos. 27481 to 28324. Pp. 88. (Bulletin 208, Bureau of Plant

Industry.)

Bacteriological Studies of the Soils of the Truckee-Carson Irrigation Project. By Karl F. Kellerman, Physiologist in Charge of Soil Bacteriology and Water-purification Investigations, and E. R. Allen, Scientific Assistant. Pp. 36, figs. 20. (Bulletin 211, Bureau of Plant Industry.)

Medical Milk Commissions and the Production of Certified Milk in the United States. (Bulletin 104, Bureau of Animal Industry.)

Cultural Studies of Species of Penicillium. (Bulletin 118, Bureau of Animal

Industry.)

The Forest Resources of the World. By Raphael Zon, Chief of Silvics. Pp. 91.

(Bulletin 83, Forest Service.)

The Control of Peach Brown-rot and Scab. (Bulletin 174, Bureau of Plant Industry.) Summer Apples in the Middle Atlantic States. (Bulletin 194, Bureau of Plant Industry.

A Review of the Phosphate Fields of Idaho, Utah, and Wyoming, with Special Reference to the Thickness and Quality of the Deposits. (Bulletin 69, Bureau of

Soils.)

CIRCULARS.

The Extra Cost of Producing Clean Milk. By George M. Whitaker, in Charge of Work Relating to Market Milk, Dairy Division. Pp. 13, pl. 4, fig. 1. (Circular Producing Clean Milk, Dairy Division). 170, Bureau of Animal Industry.)

The Sanitary Construction and Equipment of Abattoirs and Packing Houses. By G. H. Parks, Architect, Bureau of Animal Industry. Pp. 17, pl. 1. (Circular

173, Bureau of Animal Industry.)

Eradicating Cattle Ticks in California. By William M. MacKellar, Veterinary Inspector in Charge, and George H. Hart, Assistant in Pathology and Bacteriology. Pp. 18, pl. 1, figs. 4. (Circular 174, Bureau of Animal Industry.)

Information for Importers of Animals for Breeding Purposes. Pp. 3. (Circular 177, Bureau of Animal Industry.)

Breeding Horses for the United States Army. By A. D. Melvin, Chief, Bureau of

Animal Industry. Pp. 13. (Circular 178, Bureau of Animal Industry.)

Amendment 3 to B. A. I. Order 175, Modifying Paragraph 1, Section 4, Regulation 2, Regarding the Recognition of Cats Registered in the Register of the Governing Council of the Cat Fancy. P. 1. (Bureau of Animal Industry.)
Order Prescribed in Regard to the Admission of Tick-infested Cattle from Mexico

into Texas. Pp. 2. (Order 179, Bureau of Animal Industry.)

Seed-eating Mammals in Relation to Reforestation. By Ned Dearborn, Expert Biologist. Pp. 5, figs. 3. (Circular 78, Bureau of Biological Survey.)
Our Vanishing Shorebirds. By W. L. McAtee, Assistant, Biological Survey. Pp. 9,

figs. 3. (Circular 79, Bureau of Biological Survey.)

Extraction of Grains and Cattle Foods for the Determination of Sugars: A Comparison of the Alcohol and the Sodium Carbonate Digestions. By A. Hugh Bryan, A. Given, and M. N. Straughn, Sugar Laboratory. Pp. 14. (Circular 71, Bureau of Chemistry.)

The Alfalfa Caterpillar. By V. L. Wildermuth, Agent and Expert. Pp. 14, figs. 8.

(Circular 133, Bureau of Entomology.)

The Alfalfa Weevil. By F. M. Webster, in Charge of Cereal Forage Insect Investigations. Pp. 9, figs. 10. (Circular 137, Bureau of Entomology.)

List of Station Publications Received by the Office of Experiment Stations during

March, 1911. Pp. 8. (Document 1360, Office of Experiment Stations.)
Results of Boys' Demonstration Work in Corn Clubs in 1910. Pp. 7, figs. 3. (Document 647, No. "A"-75, Bureau of Plant Industry.)

Monthly List of Publications, March, 1911. Pp. 4. (Document 729, Division of

Publications.) The Norfolk Fine Sandy Loam. By Jay A. Bonsteel, Scientist in Soil Survey. Pp.

16. (Circular 22, Bureau of Soils.) The Norfolk Fine Sand. By Jay A. Bonsteel, Scientist in Soil Survey. Pp. 16. (Circular 23, Bureau of Soils.)

The Twenty-eight Hour Law. Pp. 5. (Circular 46, Office of the Solicitor.) The Food and Drugs Act. Pp. 7. (Circular 47, Office of the Solicitor.)

Crop Reporter, Vol. 13, No. 4, April, 1911. Pp. 25-32. (Bureau of Statistics.) The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

FARMERS' BULLETINS.

NEW.

Cabbage. By L. C. Corbett, Horticulturist, Bureau of Plant Industry. Pp. 23, figs. (Farmers' Bulletin 433.) 11.

This bulletin treats of the cultivation, harvesting, and marketing of cabbage when grown as a truck crop in the South, a market-garden crop in localities farther north, and as a farm crop in the New England and Lake States. The bulletin also contains suggestions in regard to the control of diseases and insects affecting the cabbage.

Winter Oats for the South. By C. W. Warburton, Agronomist in Charge of Oat Investigations, Bureau of Plant Industry. Pp. 32, figs. 9. (Farmers' Bulletin 436.) This bulletin contains information in regard to the production of oats in the Southern States, its value as a winter crop, fall-sown oats compared with spring-sown oats, varieties grown, soils and fertilizers for the crop, use in rotation, treatment of seeds, yields, feeding value, etc.

A System of Tenant Farming and Its Results. By J. W. Froley, Assistant Agriculturist, and C. Beaman Smith, Agriculturist, Bureau of Plant Industry. Pp. 20.

(Farmers' Bulletin 437.)

This bulletin tells why tenant farms deteriorate, the advantages, disadvantages, and fundamental principles of tenant farming, etc., and gives an example of tenant farming on a large estate in Maryland, explaining the cropping systems, terms of rental and live-stock management, with some suggestions for improvement of the system.

Hog Houses. By J. A. Warren, Formerly Assistant Agriculturist, Office of Farm Management, Bureau of Plant Industry. Pp. 29, figs. 21. (Farmers' Bulletin 438.) This bulletin explains the necessity for the better housing of hogs, the cost of housing a litter of pigs, describes some varieties of hog houses, and the advantages of certain types. Anthrax, with Special Reference to Its Suppression. By Henry J. Washburn, Senior Pathologist, Pathological Division, Bureau of Animal Industry. Pp. 16. ers' Bulletin 439.)

This bulletin describes the nature, history, and forms of anthrax and the anthrax bacillus, and gives directions for the suppression and prevention of this and other infectious diseases.

Remedies and Preventives Against Mosquitoes. By L. O. Howard, Entomologist and Chief, Bureau of Entomology. Pp. 15. (Farmers' Bulletin 444.)

This bulletin contains directions for protection from mosquitoes and remedies for their bites, the use of smudges, fumigants, and deterrent plants, and for the destruction of larvæ in breeding

Marketing Eggs Through the Creamery. By Rob R. Slocum, Animal Husbandman in Poultry Investigations, Bureau of Animal Industry. Pp. 12. (Farmers' Bulletin 445.)

This bulletin describes the usual method of marketing eggs through the village store, the disadvantages and losses attending such methods; it explains the method of marketing eggs through a Minnesota creamery, the average prices for the different months, advantages of the system, etc.

The Choice of Crops for Alkali Land. By Thomas H. Kearney, Physiologist in Charge of Alkali and Drought Resistant Plant Breeding Investigations, Bureau of Plant Industry. Pp. 32. (Farmers' Bulletin 446.)

This bulletin tells of the chemical nature of alkali, the causes of its appearance in the soil, its effect upon plant growth, and plants suitable for different grades of alkali lands.

Some Facts about Malaria. By L. O. Howard, Entomologist and Chief, Bureau of Entomology. Pp. 13, figs. 6. (Farmers' Bulletin 450.)

This bulletin is issued in response to a popular demand for such information. It tells of the disease and its cause, method of infection, and its prevention and cure. It also describes the malarial mosquitoes.

Danger of General Spread of the Gipsy and Brown-tail Moths Through Imported Nursery Stock. By C. L. Marlatt, Entomologist and Assistant Chief, Bureau of Pp. 22, figs. 7. (Farmers' Bulletin 453.)

This bulletin is issued as a warning to nurserymen, fruit growers, and purchasers of ornamental trees and shrubs. It contains information in regard to importations and distribution of infested nursery stock, conditions in the District of Columbia, effect of the brown-tail moth on health, European nursery conditions, the necessity for quarantine legislation, with a brief description of the different stages of the gipsy and brown-tail moths.

SEPARATES.

NEW.

A Note on Zebra Hybrid Breeding. By E. H. Riley, Animal Husbandman in Animal Breeding Investigations, Animal Husbandry Division. Pp. 229-232, pls. 3. (From Annual Report of Bureau of Animal Industry, 1909.)

Recent Irrigation Legislation. By R. P. Teele, Assistant Chief, Irrigation Investigations. Pp. 399-414. (From Annual Report, Office of Experiment Stations, 1909.)

PUBLICATIONS OF THE WEATHER BUREAU. [Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted.]

Monthly Weather Review, Vol. 38, No. 12, December, 1910. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 1775–1927, figs. 3, maps 26, charts 8. (W. B. No. 448.) Price 35 cents; \$4 a year.

National Monthly Weather Bulletin, No. 3, for March. Same weekly, Nos. 4-6, for

Price 25 cents a year.

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Jos. A. Arnold, Editor and Chief.

Approved:

JAMES WILSON, Secretary of Agriculture.

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No. 735.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., May 31, 1911.

MONTHLY LIST OF PUBLICATIONS.

[MAY, 1911.]

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ADVANCE SHEETS, BUREAU OF SOILS.

Soil Survey of Gaston County, North Carolina. By W. Edward Hearn, L. L. Brinkley, and F. P. Drane. Pp. 33, fig. 1, map.

Soil Survey of Berks County, Pennsylvania. By W. J. Geib, E. L. Worthen, F. S. Welsh, J. C. Britton, and C. R. Zappone, jr. Pp. 47, fig. 1, map.

Soil Survey of Campbell County, Virginia. By R. A. Winston. Pp. 39, fig. 1, map.

Soil Survey of Waushara County, Wisconsin. By J. W. Nelson, of the United States Department of Agriculture, and Guy Conrey and A. K. Kuhlman, of the Wisconsin Geological and Natural History Survey. Pp. 33, fig. 1, map.

REPORTS.

NEW.

Yearbook of the U.S. Department of Agriculture, 1910. Pp. 711, Frontispiece, pls. 49, figs. 31. Price, cloth \$1.

The Yearbook contains the annual report of the Secretary of Agriculture, 156 pages; 28 miscellaneous articles including a wide range of subjects, each closely related to some line of work of the Department, 220 pages; an appendix, 211 pages; and index, 23 pages. The appendix contains short articles on the publications of the Department and their distribution, and on seedtime and harvest; a review of weather conditions for the year; and lists of agricultural colleges, experiment stations, and of officials in charge of agricultural interests in the several States. The closing 189 pages are occupied by statistical tables covering production, prices, exports, and imports of the principal crops and farm animals.

Only 6 out of each 100 copies of the Yearbook are assigned to this Department, which is insufficient to supply even its regular correspondents and coworkers. Other applicants are therefore respectfully referred to their Representatives or Delegates in Congress, to whom the other 94 per cent are allotted for distribution, or to the Superintendent of Documents, Government Printing Office, Washington, D. C., who has it for sale at \$1 per copy.

who has it for sale at \$1 per copy.

Annual Report of the Hawaii Agricultural Experiment Station for 1910. E. V. Wilcox, Special Agent in Charge. Under the Supervision of Office of Experiment Stations. Pp. 64, Frontispiece, pls. 8, figs. 4.

BULLETINS.

NEW.

Index-catalogue of Medical and Veterinary Zoology. Authors: Werlhof to Xémard-By Ch. Wardell Stiles, Consulting Zoologist, and Albert Hassall, Assistant Zoologist, Bureau of Animal Industry. Pp. 2583–2654. (Bulletin 39, Part 34, Bureau of Animal Industry.)

The Nematodes Parasitic in the Alimentary Tract of Cattle, Sheep, and Other Ruminants. By B. H. Ransom, Chief of the Zoological Division. Pp. 132, figs. 152. (Bulletin 127, Bureau of Animal Industry.)

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Food of the Woodpeckers of the United States. By F. E. L. Beal, Assistant, Biolog-

ical Survey. Pp. 64, pls. 6, figs. 3. (Bulletin 37, Biological Survey.) Enological Studies. The Occurrence of Sucrose in Grapes. The Sugar and Acid Content of Different Varieties of Grapes. By William B. Alwood, Enological Chemist. Pp. 24. (Bulletin 140, Bureau of Chemistry.)

Contents and Index to Papers on Cereal and Forage Insects. Pp. xi, 147-162. (Bul-

letin 85 [Part IX], Bureau of Entomology.)

Hydrocyanic-acid Gas Fumigation in California. Fumigation of Citrus Trees. By R. S. Woglum, Special Field Agent, Bureau of Entomology. Pp. 81, pls. 8, figs.

12. (Bulletin 90, Part 1, Bureau of Entomology.)

Same, The Value of Sodium Cyanid for Fumigation Purposes. By R. S. Woglum.

Pp. 83-90, pls. 2. (Bulletin 90, Part 2, Bureau of Entomology.)

Same, Chemistry of Fumigation with Hydrocyanic-acid Gas. By C. C. McDonnell,

Chief, Insecticide and Fungicide Laboratory, Bureau of Chemistry. Pp. 91-105, fig. 1. (Bulletin 90, Part 3, Bureau of Entomology.)

Vineyard Spraying Experiments against the Rose-chafer in the Lake Erie Valley.
By Fred Johnson, Agent and Expert, Deciduous Fruit Insect Investigations.
Pp. 53-64, pls. 4, fig. 6. (Bulletin 97, Part 3, Bureau of Entomology.)
A Revision of the Powder-post Beetles of the Family Lyctidæ of the United States and

Europe. By E. J. Kraus, Expert Preparator, Forest Insect Investigations. Appendix: Notes on Habits and Distribution, with List of Described Species. By A. D. Hopkins, in Charge of Forest Insect Investigations. Pp. 111-138. (Bulletin 20,

Part 3, Technical, Buréau of Entomology.)
Studies in the Sawfly Genus Hoplocampa. By S. A. Rohwer, Agent and Expert.
Pp. 139–148, pls. 4, fig. 1. (Bulletin 20, Part 4, Technical, Bureau of Entomology.)
The Use of Underground Water for Irrigation at Pomona, California. By C. E. Tait,

Irrigation Engineer. Pp. 99, pls. 5, fig. 8. (Bulletin 236, Office of Experiment

Irrigation in California. By F. W. Roeding, Irrigation Manager. Pp. 62, pl. 1, figs. 17. (Bulletin 237, Office of Experiment Stations.)

Proceedings of the Fifteenth Annual Meeting of the American Association of Farmers' Institute Workers, Held at Washington, D. C., November 14, 15, 1910. Edited by W. H. Beal for the Office of Experiment Stations and John Hamilton for the Association. Pp. 80. (Bulletin 238, Office of Experiment Stations.)
Experiment Station Record, Vol. XXIII, Index Number. E. W. Allen, Ph. D.,

Editor. Pp. 801-918.

Same, Vol. XXIV, No. 5, April, 1911. Pp. 401-500.

Same, Vol. XXIV, No. 6, May, 1911. Pp. 501-600.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, eight numbers each, at \$1 per volume. Current numbers are not sold separately.

Insects Injurious to Citrus Fruits and Methods for Combating Them. By W. V. Tower, Entomologist, Porto Rico Agricultural Experiment Station. Pp. 35, pls. 5.

(Bulletin 10, Porto Rico Agricultural Experiment Station.)

The Aspens: Their Growth and Management. By W. G. Weigle, Forest Supervisor, and E. H. Frothingham, Forest Assistant. Pp. 35. (Bulletin 93, Forest Service.) Seeds and Plants Imported during the Period from January 1 to March 31, 1910: Inventory No. 22; Nos. 26471 to 27480. Pp. 100. (Bulletin 207, Bureau of Plant Industry.

Grimm Alfalfa and Its Utilization in the Northwest. By Charles J. Brand, Physiologist, Crop Physiology and Breeding Investigations. Pp. 66, pls. 2. (Bulletin

209, Bureau of Plant Industry.)
Hindi Cotton in Egypt. By O. F. Cook, Bionomist in Charge of Crop Acclimatization and Adaptation Investigations. Pp. 58, pls. 6. (Bulletin 210, Bureau of Plant Industry.)
The Use of Soils East of the Great Plains Region. By Milton Whitney. Pp. 292,

pl. 1, figs. 16. (Bulletin 78, Bureau of Soils.)
The Color of Soils. By W. O. Robinson, and W. J. McCaughey, Scientists in Soil Laboratory Investigations. Pp. 29, figs. 2. (Bulletin 79, Bureau of Soils.)

REPRINTS.

Orchard Fruits in the Piedmont and Blue Ridge Regions of Virginia and the South Atlantic States. (Bulletin 135, Bureau of Plant Industry.)

Application of Some of the Principles of Heredity to Plant Breeding. (Bulletin 165,

Bureau of Plant Industry.)

Breeding Drought-resistant Forage Plants for the Great Plains Area. (Bulletin 196, Bureau of Plant Industry.)

CIRCULARS.

NEW.

The Adulteration and Misbranding of the Seeds of Alfalfa, Red Clover, Kentucky Bluegrass, Orchard Grass, and Redtop. Pp. 6. (Circular 35, Office of the Secretary.) A Study of Surra Found in an Importation of Cattle, Followed by Prompt Eradica-

tion. By John R. Mohler, Chief of the Pathological Division, and William Thompson, Veterinary Inspector. Pp. 17, pls. 3, figs. 2. (Circular 169, Bureau of

Animal Industry.)

Fermented Milks. By L. A. Rogers, Bacteriologist in Charge of Research Laboratories. Pp. 28, fig. 1. (Circular 171, Bureau of Animal Industry.)

The Ostrich Industry in the United States. By A. R. Lee, Junior Animal Husbandman. Pp. 6, pls. 3. (Circular 172, Bureau of Animal Industry.)

Cow-testing Associations. By Helmer Rabild, in Charge of Dairy Farming Investigations. Pp. 24. (Circular 179, Bureau of Animal Industry.)

Populations for the Inspection and Quarantine of Horses, Cattle, Sheep, Swine, and

Regulations for the Inspection and Quarantine of Horses, Cattle, Sheep, Swine, and Other Animals Imported into the United States. Pp. 26. (Order 180, Bureau of

Animal Industry.)

The Occurrence of Bee Diseases in the United States. By E. F. Phillips, in Charge

of Bee Culture. Pp. 25. (Circular 138, Bureau of Entomology.)

Federal Legislation, Regulations, and Rulings Affecting Agricultural Colleges and Experiment Stations. Pp. 24. (Circular 111, Office of Experiment Stations.) The Growth and Management of Douglas Fir in the Pacific Northwest. By Thorn-

ton T. Munger, Forest Assistant. Pp. 27, figs. 4. (Circular 175, Forest Service.) Wooden and Fiber Boxes. By Hu Maxwell, Expert, and H. S. Sackett, Chief, Office of Wood Utilization. Pp. 14. (Circular 177, Forest Service.)
Monthly List of Publications, April, 1911. Pp. 4. (Document 731, Division of

Publications.) The Portsmouth Sandy Loam. By Jay A. Bonsteel, Scientist in Soil Survey. Pp. 12. (Circular 24, Bureau of Soils.)

The Sassafras Silt Loam. By Jay A. Bonsteel, Scientist in Soil Survey. Pp. 14.

(Circular 25, Bureau of Soils.)

Examination of Soil Samples. Pp. 7. (Circular 26, Bureau of Soils.)

Foreign Crops, May, 1911. Prepared by Charles M. Daugherty, Chief of the Division of Research and Reference. Pp. 12. (Circular 19, Bureau of Statistics.)

Crop Reporter, Vol. 13, No. 5, May, 1911. Pp. 33-40. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

REPRINTS.

House Ants. (Circular 34, Bureau of Entomology.) The Bedbug. (Circular 47, Bureau of Entomology.) The White Ant. (Circular 50, Bureau of Entomology.) House Flies. (Circular 71, Bureau of Entomology.) Arbor Day. (Circular 96, Forest Service.)

FARMERS' BULLETINS.

NEW.

Lespedeza, or Japan Clover. By A. D. McNair and W. B. Mercier, Bureau of Piant Industry. Pp. 19, figs. 6. (Farmers' Bulletin 441.)

This bulletin tells of the introduction of lespedeza into the United States, its value for pasturage, and management as a farm crop, harvesting, yield, etc., and the possibility of extending the lespedezaproducing area.

The Treatment of Bee Diseases. By E. F. Phillips, in Charge of Bee Culture, Bureau of Entomology. Pp. 22, figs. 7. (Farmers' Bulletin 442.)

This bulletin is issued to supersede Farmers' Bulletin 79. It describes the brood and adult diseases of bees and the proper methods for their treatment, with suggestions for precautionary measures.

Bees. By E. F. Phillips, in Charge of Bee Culture, Bureau of Entomology. Pp. 48, figs. 25. (Farmers' Bulletin 447.)

This bulletin supersedes Farmers' Bulletins 59 and 397 on the same subject. It contains information as to the location of the apiary, the necessary equipment, bee behavior, directions for manipulation, and their management in the spring and at swarming time. It also tells of the production and care of honey and wax and describes a number of bee diseases.

Rabies, or Hydrophobia. By John R. Mohler, Chief of the Pathological Division, Bureau of Animal Industry. Pp. 23. (Farmers' Bulletin 449.)

This bulletin describes the nature and characteristics of rabies, its causes, symptoms, post-mortem appearance of diseased animals, the transmission of the disease, differential diagnosis, its distribution, prevalence, prevention, eradication, etc.

Experiment Station Work, LXIII, Compiled from Publications of the Agricultural Experiment Stations. Pp. 24, figs. 6. (Farmers' Bulletin 451.)

Contents: Sterilizing tobacco plant beds—Clover growing—Curing clover hay—The Velvet bean—Draft horses—Care of mares and foals.

Capons and Caponizing. By Rob R. Slocum, Animal Husbandman in Poultry Investigations, Bureau of Animal Industry. Pp. 16, figs. 7. (Farmers' Bulletin

This bulletin describes the characteristics of the capon, the selection of suitable breeds for caponizing, the proper time and method of operation, the care and feeding of the caponized fowls, killing and dressing for market, profits, etc.

PUBLICATIONS OF THE WEATHER BUREAU.

[Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted.]

Frost Data of the United States; and Length of the Crop-growing Season, as Determined from the Average of the Latest and Earliest Dates of Killing Frost. By P. C. Day, Chief of the Climatological Division. Prepared under the Direction of Willis L. Moore, Chief of Weather Bureau. Pp. 5, charts 5. (Bulletin V, Weather Bureau.

Monthly Weather Review, Vol. 39, No. 1, January, 1911. Pp. 156, figs. 3, maps 2,

charts 8. (W. B. No. 451.) Price 35 cents, \$4 a year.

Same, Vol. 39, No. 2, February, 1911. Pp. 157–315, figs. 10, maps 2, charts 8. (W. B. No. 452.) Price 35 cents, \$4 a year.

National Weekly Weather Bulletin, Nos. 7-11, for May, 1911. Price 25 cents a year.

For educational purposes, or for reproduction for use in newspapers or periodicals, photographs of anything which has appeared in any publication of this Department can be furnished to applicants. A charge will be made for these photographs which covers, approximately, the cost of the material, and which will be made known on application. Photographs of all the ordinary kinds are included in this offer.

Electrotypes of any illustrations which have appeared in the publications of this Department since 1908 can be supplied to applicants on an order from the Division of Publications, by the firms which make them for the Department, the cost being about 5 cents per square inch.

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It is expected that due credit will be given to the Department of Agriculture when these illustrations are used.

> Jos. A. Arnold Editor and Chief.

Approved: JAMES WILSON, Secretary of Agriculture.

No. 739.

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., June 30, 1911.

MONTHLY LIST OF PUBLICATIONS.

[JUNE: 1911.]

NOTE.—Application for the publications in this list should be made to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C. The editions of many of the publications are necessarily limited, and when the supply is exhausted and no funds are available for procuring additional copies, applicants must be referred to the Superintendent of Documents, Government Printing Office, who has them for sale at a nominal price, under the law of January 12, 1895. Applications made by librarians or others checking this list should always give plainly the name and address of the applicant, not merely a library number.

ADVANCE SHEETS, BUREAU OF SOILS.

Soil Survey of Chambers County, Alabama. By Howard C. Smith, of the U. S. Department of Agriculture, and P. H. Avary, of the Alabama Department of Agri-

culture and Industries. Pp. 30, fig. 1, map.

Soil Survey of Coffee County, Alabama. By Lewis A. Hurst, of the U. S. Department of Agriculture, and A. D. Cameron, of the Alabama Department of Agriculture and Industries. Pp. 51, fig. 1, map.

Soil Survey of Rice County, Minnesota. By R. T. Avon Burke and Lawrence A. Kolbe. Pp. 39, fig. 1, map.

Soil Survey of Cedar County, Missouri. By E. B. Watson, of the U. S. Department of Agriculture, and H. F. Williams, of the University of Missouri. Pp. 34, fig. 1, map.

BULLETINS.

NEW.

Studies on the Biology of the Texas-fever Tick. By H. W. Graybill, Assistant Zoologist, Bureau of Animal Industry. Pp. 42, figs. 3. (Bulletin 130, Bureau of Animal Industry.

Anthrax, with Special Reference to the Production of Immunity. By Charles F. Dawson, Veterinarian, Delaware College Agricultural Experiment Station, under the direction of John R. Mohler, Chief of the Pathological Division, Bureau of

Animal Industry. Pp. 47. (Bulletin 137, Bureau of Animal Industry.)

American Mineral Waters: The New England States. By W. W. Skinner, Chief, Water Laboratory. With a chapter on Bacteriological Methods, by G. W. Stiles, jr., Bacteriological Chemist. Prepared under the direction of J. K. Haywood, Chief, Miscellaneous Division. Pp. 111, figs. 2. (Bulletin 139, Bureau of Chemistry.)

The sugar-cane Insects of Hawaii. By D. L. Van Dine, Special Field Agent. Pp. 54, pls. 4, figs. 5. (Bulletin 93, Bureau of Entomology.)

Papers on Coccidæ or Scale Insects. Catalogue of Recently Described Coccidæ—III.

By E. R. Sasscer, Scientific Assistant. Pp. 61-74. (Bulletin 16, Part 4, Technical

By E. R. Sasscer, Scientific Assistant. Pp. 61-74. (Bulletin 16, Part 4, Technical Series, Bureau of Entomology.)

Synopsis, Catalogue, and Bibliography of North American Thysanoptera, with Descriptions of New Species. By Dudley Moulton, Deputy State Commissioner of Horticulture for California. Pp. 56, pls. 6. (Bulletin 21, Technical Series,

Bureau of Entomology.)
Irrigation in the San Joaquin Valley, California. By Victor M. Cone, Irrigation Engineer, under the direction of Samuel Fortier, Chief of Irrigation Investigations. Pp. 62, pl. 1, figs. 15. (Bulletin 239, Office of Experiment Stations.)

257°-11

The Assimilation of Nitrogen by Rice. By W. P. Kelley, Chemist, under the supervision of Office of Experiment Stations, U. S. Department of Agriculture.

Pp. 20. (Bulletin 24, Hawaii Agricultural Experiment Station.)

Sugar Cane in Porto Rico. By D. W. May, Special Agent in Charge, under the supervision of Office of Experiment Stations, U. S. Department of Agriculture. Pp. 40, pls. 3. (Bulletin 9, Porto Rico Agricultural Experiment Station.)

Preservative Treatment of Poles. Compiled by William H. Kempfer, Forest Assist-

ant. Pp. 55, pls. 4, figs. 11. (Bulletin 84, Forest Service.)
Properties and Uses of Douglas Fir. Part I. Mechanical Properties. Part 2. Commercial Uses. By McGarvey Cline, Director, Forests Products Laboratory, and J. B. Knapp, Assistant District Forester. Pp. 75, pls. 3, diagrams 15. (Bulletin 88, Forest Service.)

The Olympic National Forest: Its Resources and Their Management. By Findley Burns, Chief of Publication, Forest Service. Pp. 20, pls. 3. (Bulletin 89, Forest

Light in Relation to Tree Growth. By Raphael Zon, Chief of Silvics, and Henry S.

Graves, Forester. Pp. 59, figs. 10. (Bulletin 92, Forest Service.)
Monthly Bulletin of the Library (Library accessions). April, 1911, Vol. 2, No. 4.

Pp. 93-120.

A Study of Farm Equipment in Ohio. By L. W. Ellis, Assistant in Farm Management, in Cooperation with the Department of Cooperation of the Ohio Agricultural

Experiment Station. Pp. 57, figs. 4. (Bulletin 212, Bureau of Plant Industry.)
The Movement of Soil Material by the Wind. By E. E. Free, with a Bibliography of Eolian Geology, by S. C. Stuntz and E. E. Free. Pp. 272, pls. 5, figs. 2. (Bulletin 68, Bureau of Soils.)

Soil Erosion. By W J McGee, Expert in Charge, Soil Water Investigations. Pp. 60,

pls. 33, figs. 3. (Bulletin 71, Bureau of Soils.)
Experiment Station Record, Vol. XXIV, No. 8. E. W. Allen, Ph. D., Editor. Pp. 701-800.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, eight numbers each, at \$1 per volume. Current numbers are not sold separately.

CIRCULARS.

NEW.

The Dimethyl Sulphate Test of Creosote Oils and Creosote Dips; a Substitute for the Sulphonation Test. By Robert M. Chapin, Senior Biochemist, Biochemic Division. Pp. 7. (Circular 167, Bureau of Animal Industry.)

Amending Paragraph (a) of Regulation 33 Relating to the Use of Tobacco or Tobacco Products Containing Nicotine Permitted in the Official Dipping of Sheep for Scabies. P. 1. (Amendment 5 to Order 143, Bureau of Animal Industry.)

Modifying Regulation 2, Section 4, Paragraph 2, and Amendment 1, Regarding the Recognition of Animals Registered in the Canadian National Records. P. 1. (Amendment 4 to Order 175, Bureau of Animal Industry.)

Animals Imported for Breeding Purposes for Which Certificates of Pure Breeding Have Been Issued by the Bureau of Animal Industry. Cattle. January 1 to March 31, 1911. Pp. 12. (Misc., Bureau of Animal Industry.)

Progress of Game Protection in 1910. By T. S. Palmer and Henry Oldys, Assistants,

Biological Survey. Pp. 36, fig. 1. (Circular 80, Biological Survey.)

A Chemical Investigation of the Oil of Chenopodium. By E. K. Nelson, Assistant

Chemist, Division of Drugs. Pp. 10. (Circular 73, Bureau of Chemistry.)
Damage to Sugar Cane in Louisiana by the Sugar-cane Borer. By T. C. Barber,

Agent and Expert. Pp. 12. (Circular 139, Bureau of Entomology.)

An Annotated Bibliography of the Mexican Cotton Boll Weevil. By F. C. Bishopp,

Agent and Expert. Pp. 30. (Circular 140, Bureau of Entomology.)
The Mango Weevil. (Cryptorhynchus mangiferæ.) By C. L. Marlatt, Entomologist. Pp. 3, figs. 2. (Circular 141, Bureau of Entomology.)

The Transportation Companies as Factors in Agricultural Extension. By John Hamilton, Farmers' Institute Specialist, Office of Experiment Stations. Pp. 14. (Circular 112, Office of Experiment Stations.)

Fustic Wood: Its Substitutes and Adulterants. By George B. Sudworth, Dendrologist, and Clayton D. Mell, Assistant Dendrologist. Pp. 14, figs. 4. (Circular 184,

Forest Service.)

A Study of the Improvement of Citrus Fruits through Bud Selection. By A. D. Shamel, Physiologist, Field Investigations in Pomology. Pp. 19, figs. 5. (Circu-

Shamel, Physiologist, Field Investigations in Pomology. Pp. 19, figs. 5. (Circular 77, Bureau of Plant Industry.)

Agricultural Observations on the Truckee-Carson Irrigation Project. By F. B. Headley, Assistant Agriculturist, and Vincent Fulkerson, Agent. Pp. 20, fig. 1. (Circular 78, Bureau of Plant Industry.)

Winter Wheat in western South Dakota. By Cecil Salmon, Plant Pathologist, Office of Grain Investigations. Pp. 10. (Circular 79, Bureau of Plant Industry.)

The Shrinkage of Corn in Storage. By J. W. T. Duvel, Crop Technologist in Charge of Grain Standardization Investigations, and Laurel Duval, Assistant in Charge of the Baltimore Grain Standardization Laboratory. Pp. 11, figs, 3. (Circular 81, Bureau of Plant Industry.) Bureau of Plant Industry.)
Crown-gall and Sarcoma. By Erwin F. Smith, Pathologist in Charge of Laboratory

of Plant Pathology. Pp. 4. (Circular 85, Bureau of Plant Industry.)

Monthly List of Publications. May, 1911. Pp. 4. (Document 735, Division of

Publications.)

Progress Reports of Experiments in Dust Prevention and Road Preservation, 1910. Prepared by the Office of Public Roads. Pp. 56. (Circular 94, Office of Public

Soils of the Eastern United States and Their Use—V. The Cecil Sandy Loam. By Jay A. Bonsteel, Scientist in Soil Survey. Pp. 19. (Circular 27, Bureau of Soils.) Same, VI. The Cecil Clay. By Jay A. Bonsteel, Scientist in Soil Survey. Pp. 16. (Circular 28, Bureau of Soils.)

Same, VII. The Hagerstown Loam. By Jay A. Bonsteel, Scientist in Soil Survey.

Pp. 18. (Circular 29, Bureau of Soils.)

Foreign Crops, June, 1911. Prepared by Charles M. Daugherty, Chief of the Division of Research and Reference. Pp. 13. (Circular 20, Bureau of Statistics.) Crop Reporter, Vol. 13, No. 6, June, 1911. Pp. 41–48. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

REPRINTS.

Rules and Regulations for the Enforcement of the Food and Drugs Act. (Circular 21, Office of the Secretary.)

The Comparative Rate of Decomposition in Drawn and Undrawn Market Poultry.

(Circular 70, Bureau of Chemistry.)

The Woolly Aphis of the Apple. (Circular 20, Bureau of Entomology.)
The Aphides Affecting the Apple. (Circular 81, Bureau of Entomology.)
House Fleas. (Circular 108, Bureau of Entomology.)
Native and Planted Timber of Iowa. (Circular 154, Forest Service.)
The Production of Cotton under Boll Weevil Conditions. Pp. 8. (Document 619,

No. "A"—71, Bureau of Plant Industry.)

Publications of the Library. (Circular 18, Division of Publications.)

Publications of the Bureau of Chemistry. (Circular 7, Division of Publications.)

FARMERS! BULLETINS.

NEW.

Barley: Growing the Crop. By H. B. Derr, Agronomist in Charge of Barley Investigations, Office of Grain Investigations, Bureau of Plant Industry. Pp. 48, figs. 17. (Farmers' Bulletin 443.)

This bulletin tells of the origin and early history of barley, its botanical characters, its introduction into the United States, suitable soils, fertilizers, value in rotation, etc. It contains directions for sowing the seed, cultivating the crop, harvesting and storing the grain; gives results of experiments in growing barley in different States, and makes suggestions for combating injurious insects and diseases.

Better Grain-sorghum Crops. By Carlton R. Ball, Agronomist in Charge of Grainsorghum Investigations, Bureau of Plant Industry. Pp. 36, figs. 13. (Farmers' Bulletin 448.)

This bulletin describes the grain-sorghum belt, the importance and uses of the grain-sorghum crop, and suggests methods for improving the grain sorghums.

Our Grosbeaks and Their Value to Agriculture. By W. L. McAtee, Assistant, Biological Survey. Pp. 14, figs. 3. (Farmers' Bulletin 456.)

This bulletin describes the finches, or grosbeaks, that are useful to the farmer, their food habits, etc. It suggests methods of preventing damage to crops and of attracting and protecting these birds.

SEPARATES.

REPRINTS.

The Principal Insect Enemies of the Peach. (Separate 386, from Yearbook 1905.) The Status of the American Lemon Industry. (Separate 453, from Yearbook 1907.)

PUBLICATIONS OF THE WEATHER BUREAU.

[Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted.]

Report of the Chief of the Weather Bureau, 1909-1910. Pp. 281.

Monthly Weather Review, Vol. 39, No. 3, March, 1911. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 317-486, figs. 8, maps 2, charts 8. (W. B. No. 455.) Price 35 cents; \$4 a year.

Bulletin of the Mount Weather Observatory, Vol. 3, part 5. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 275-346, figs. 37, charts 6. (W. B. No. 454.) Price 25 cents; \$1 a year.

Contents and Index to Vol. 3, Bulletin of the Mount Weather Observatory. Pp. 5.

W. B. No. 457.)

Daily River Stages at the River Gage Stations on the Principal Rivers of the United States. Part X, for the years 1909 and 1910. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau, by H. C. Frankenfield, Professor of Meteorology. Pp. 397. (W. B. No. 453.)

National Weekly Weather Bulletin, Nos. 12, 13, 14, 15, for June, 1911. Price 25

cents a year.

For educational purposes, or for reproduction for use in newspapers or periodicals, photographs of anything which has appeared in any publication of this Department can be furnished to applicants. A charge will be made for these photographs, which covers, approximately, the cost of the material, and which will be made known on application. Photographs of all the ordinary kinds are included in this offer.

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> Jos. A. Arnold, Editor and Chief.

Approved: JAMES WILSON, Secretary of Agriculture. 1 page M

No. 741.

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United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C.; July 31; 1911.

MONTHLY LIST OF PUBLICATIONS.

[JULY, 1911.]

NOTE.—Application for the publications in this list should be made to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C. The editions of many of the publications are necessarily limited, and when the supply is exhausted and no funds are available for procuring additional copies, applicants must be referred to the Superintendent of Documents, Government Printing Office, who has them for sale at a nominal price, under the law of January 12, 1895. Applications made by librarians or others checking this list should always give plainly the name and address of the applicant, not merely a library number.

ADVANCE SHEETS, BUREAU OF SOILS.

Soil Survey of the Marshfield Area, Oregon. By C. W. Mann and James E. Ferguson.

Pp. 38, fig. 1, map.

Reconnoissance Soil Survey of Marinette County, Wisconsin. By S. Weidman, Wisconsin Geological Survey, and Percy O. Wood, U. S. Department of Agriculture. Pp. 39, pls. 4, fig. 1, map.

REPORTS.

NEW.

Annual Report of the Porto Rico Agricultural Experiment Station for 1910. Pp. 44. frontispiece, pls. 3.

Field Operations of the Bureau of Soils, 1908. (Tenth Report.) Pp. 1428, pls. 8, figs. 38, maps 37 (in pocket). For distribution also by Senators, Representatives, and Delegates in Congress.

BULLETINS.

NEW.

Proceedings of the Twenty-seventh Annual Convention of the Association of Official Agricultural Chemists, held at Washington, D. C., November 10-12, 1910. Edited by Harvey W. Wiley, Secretary of the Association. Pp. 211, figs. 3. (Bulletin 137, Bureau of Chemistry.)

Translocation of Plant Food and Elaboration of Organic Plant Material in Wheat Seedlings. By J. A. Le Clerc and J. F. Breazeale, Chemistry Bureau. Pp. 32, figs. 2. (Bulletin 138, Bureau of Chemistry.)

The Importation into the United States of the Parasites of the Gipsy Moth and the Brown-tail Moth. By L. O. Howard, Chief, Bureau of Entomology, and W. F. Fiske, In Charge, Gipsy Moth Parasite Laboratory, Melrose Highlands, Mass. Pp.

312, pls. 28, figs. 74. (Bulletin 91, Bureau of Entomology.)
White Flies Injurious to Citrus in Florida. By A. W. Morrill, Ph. D., and E. A. Back, Ph. D. Pp. 109, pls. 10, figs. 19. (Bulletin 92, Bureau of Entomology.)
Irrigation in Arizona. By R. H. Forbes, Director, Arizona Experiment Station. Pp. 83, pls. 4, figs. 8. (Bulletin 235, Office of Experiment Stations.)
Experiment Station Record, Vol. XXIV, No. 7, June, 1911. E. W. Allen, Ph. D., Editor. Pp. 601-700.

Editor. Pp. 601-700. Same, Vol. XXV, No. 1, July, 1911. Pp. 1-100.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, eight numbers each, at \$1 per volume. Current numbers are not sold separately.

Chaparral: Studies in the Dwarf Forests, or Elfin-wood, of Southern California. By Fred G. Plummer, Geographer. Pp. 48, pls. 8, figs. 7. (Bulletin 85, Forest Service.) Scrub Pine. By W. D. Sterrett, Forest Assistant. Pp. 27, frontispiece, fig. 1. (Bulletin 94, Forest Service.)

Uses of Commercial Woods of the United States: 1. Cedars, Cypresses, and Sequoias. By William L. Hall, Assistant Forester, and Hu Maxwell, Expert. Pp. 62. (Bulletin 95, Forest Service.)

Monthly Bulletin of the Library (Library accessions). May, 1911, Vol. 2, No. 5.

Pp. 123-158.

The Blister Rust of White Pine. By Perley Spaulding, Pathologist, Investigations in Forest Pathology. Pp. 88, pls. 2, figs. 5. (Bulletin 206, Bureau of Plant

The Timber Rot Caused by Lenzites Sepiaria. By Perley Spaulding, Pathologist, Investigations in Forest Pathology. Pp. 46, pls. 4, figs. 3. (Bulletin 214, Bureau

of Plant Industry.)
Agriculture in the Central Part of the Semiarid Portion of the Great Plains. By J. A. Warren, Assistant Agriculturist, Office of Farm Management. Pp. 43, figs. 4. (Bulletin 215, Bureau of Plant Industry.)

Methods for the Examination of Bituminous Road Materials. By Prevost Hubbard. Chemist, Office of Public Roads, and Charles S. Reeve, Assistant Chemist. Pp. 45, figs. 18. (Bulletin 38, Office of Public Roads.)

CIRCULARS.

NEW.

Amendment No. 1, to the Rules and Regulations for Carrying out the Provisions of the Insecticide Act of 1910. P. 1. (Amendment No. 1 to Circular 34, Office of the Secretary.)

Emergency Forage Crops. Pp. 4. (Circular 36, Office of the Secretary.)

A method for the Separation of the Seven Permitted Coal-tar Colors when Occurring in Mixtures. By T. M. Price, Ph. D., Senior Biochemist. Pp. 7. (Circular 180, Bureau of Animal Industry.)

Animals Imported for Breeding Purposes. Horses. Pp. 16. (Miscellaneous, Bureau

of Animal Industry.

Detection and Determination of Small Quantities of Ethyl and Methyl Alcohol and of Formic Acid. By Raymond F. Bacon, Assistant Chemist. Pp. 8. (Circular 74, Bureau of Chemistry.)

Suggestions to Settlers on the Belle Fourche Irrigation Project. By Beyer Aune, Farm Superintendent. Pp. 14. (Circular 83, Bureau of Plant Industry.) The Relation of Handling to Decay in California Navel Oranges; Season of 1910-11.

Pp. 7. (Document 676, Bureau of Plant Industry.)

Monthly List of Publications. June, 1911. Pp. 4. (Document 739, Division of Publications.)

Publications, Office of the Secretary, Office of the Solicitor, and the Division of Publications. Pp. 4. (Circular 9, Division of Publications.)

Publications of the Office of Public Roads. Pp. 3. (Circular 10, Division of Publications)

Publications of the Forest Service. Pp. 6. (Circular 11, Division of Publications.) Special Road Problems in the Southern States. By D. H. Winslow, Superintendent

of Road Construction. Pp. 15, figs. 13. (Circular 95, Office of Public Roads.)

Soils of the Eastern United States and their Use—IX. The Miami Clay Loam. By
Jay A. Bonsteel, Scientist in Soil Survey. Pp. 17. (Circular 31, Bureau of Soils.)

Same, X. The Marshall Silt Loam. By Jay A. Bonsteel, Scientist in Soil Survey.

Pp. 18. (Circular 32, Bureau of Soils.)

Same, XI. The Knox Silt Loam. By Jay A. Bonsteel, Scientist in Soil Survey.

Pp. 17. (Circular 33, Bureau of Soils.)

Pp. 17. (Circular 33, Bureau of Soils.)
Same, XII. The Carrington Loam. By Jay A. Bonsteel, Scientist in Soil Survey.

Pp. 15. (Circular 34, Bureau of Soils.)

Saccharin in Food. P. 1. (Food Inspection Decision 138, Office of the Secretary.)

Crop Reporter, Vol. 13, No. 7, July, 1911. Pp. 49-56. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

FARMERS' BULLETINS.

A successful New York Farm. By M. C. Burritt, Scientific Assistant, Bureau of Plant Industry. Pp. 32, figs. 9. (Farmers' Bulletin 454.)

This bulletin tells of the success of the New York farmer in a "hard times" period in recent years. By organizing the work, by intelligent use of scientific methods, selection of crops and crop rotation he succeeded in earning the equivalent of 7 per cent on his investment. Wheat, clover, and potatoes were his main crops.

Experiment Station Work, LXIV. Compiled from Publications of the Agricultural Experiment Stations. Pp. 24. (Farmers' Bulletin 457.)

Contents.—Low-grade fertilizers—Japanese cane for forage—Fighting the boll weevil—Hastening maturity of cotton with fertilizers—The scuppernong—Early spring lambs—Production of sanitary milk—Lacto: A frozen dairy product—A reinforced brick silo.

By L. O. Howard, Chief, Bureau of Entomology. Pp. 16, figs. 9. House Flies. (Farmers' Bulletin 459.)

The danger from house flies is plainly set forth in this bulletin, together with a sketch of the life history of the fly, a note on the natural enemies, and suggestions for the control of this pest.

SEPARATES.

NEW.

Supply and Wages of Farm Labor. By George K. Holmes, Bureau of Statistics. Pp. 190-200. (Separate 528, Yearbook 1910.)
Inspection of Imported Food and Drug Products. By R. E. Doolittle, Bureau of Chemistry. Pp. 201-212. (Separate 529, Yearbook 1910.)
The Eradication of Cattle Tuberculosis in the District of Columbia. By R. W. Hickman, Bureau of Animal Industry. Pp. 231-242. (Separate 532, Yearbook 1910.)
The Game Market of To-day. By Henry Oldys, Biological Survey. Pp. 243-254, figs. 2. (Separate 533, Yearbook, 1910.)
The Grading of Cream. By B. D. White, Bureau of Animal Industry. Pp. 275-280. (Separate 536, Yearbook 1910.)
Increased Yields of Corn from Hybrid Seed. By G. N. Collins, Bureau of Plant

Increased Yields of Corn from Hybrid Seed. By G. N. Collins, Bureau of Plant Industry. Pp. 319-328. (Separate 540, Yearbook 1910.)

The Utilization of Crop Plants in Paper Making. By Charles J. Brand, Bureau of Plant Industry. Pp. 329-340. (Separate 541, Yearbook 1910.)

Cheese and Other Substitutes for Meat in the Diet. By C. F. Langworthy, Office of Experiment Stations. Pp. 359-370. (Separate 543, Yearbook 1910.)

Publications of the Weather Bureau.

[Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted.]

Bulletin of the Mount Weather Observatory, Vol. 4, Part 1. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 23, figs. 6. (W. B. No. 459, Weather Bureau.) Price 25 cents; \$1 a year.

Monthly Weather Review, Vol. 39, No. 4, April, 1911. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 487-648, charts 10. (W. B. No. 458.) Price 35 cents; \$4 a year.

National Weekly Weather Bulletin, Nos. 16, 17, 18, 19, for July, 1911. Price 25

cents a year.

For educational purposes, or for reproduction for use in newspapers or periodicals, photographs of anything which has appeared in any publication of this Department can be furnished to applicants. A charge will be made for these photographs, which covers, approximately, the cost of the material, and which will be made known on application. Photographs of all the ordinary kinds are included in this

Electrotypes of any illustrations which have appeared in the publications of this Department since 1908 can be supplied to applicants on an order from the Division of Publications, by the firms which make them for the Department, the cost being about 5 cents per square inch, payable to the maker on receipt of the

It is expected that due credit will be given to the Department of Agriculture when these illustrations are used.

> Jos. A. Arnold, Editor and Chief.

Approved: JAMES WILSON. Secretary of Agriculture.

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This circular will be sent regularly to all who apply for it. No. 742.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., August 31, 1911.

MONTHLY LIST OF PUBLICATIONS.

[AUGUST, 1911.]

NOTE.—Application for the publications in this list should be made to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C. The editions of many of the publications are necessarily limited, and when the supply is exhausted and no funds are available for procuring additional copies, applicants must be referred to the Superintendent of Documents, Government Printing Office, who has them for sale at a nominal price, under the law of January 12, 1895. Applications made by librarians or others checking this list should always give plainly the name and address of the applicant, not merely a library number.

ADVANCE SHEETS, BUREAU OF SOILS.

Soil Survey of Cooper County, Missouri. By A. T. Sweet, of United States Department of Agriculture, and E. S. Vanatta and B. W. Tillman, of the University of Missouri. Pp. 37, fig. 1, map.

Soil Survey of the Fallon Area, Nevada. By A. T. Strahorn and Cornelius Van Duyne. Pp. 44, pls. 4, fig. 1, maps 2.

BULLETINS.

Index Catalogue of Medical and Veterinary Zoology. Authors: Y to Zypkin. By Ch. Wardell Stiles, consulting zoologist, Bureau of Animal Industry, and Albert Hassall, assistant zoologist. Pp. 2655-2703. (Bulletin 39, part 35, Bureau of Animal Industry.)

The Nutritive Value of the Nonprotein of Feeding Stuffs. By Henry Prentiss Armsby, expert in animal nutrition. Pp. 49. (Bulletin 139, Bureau of Animal Industry.)

Dourine of Horses: Its Cause and Suppression. By John R. Mohler, Chief of the Pathological Division. Pp. 38, pls. 5. (Bulletin 142, Bureau of Animal

A Biological Survey of Colorado. By Merritt Cary, assistant biologist. Pp. 256, pls. 12, figs. 39, map. (North American Fauna 33, Bureau of Biological Survey.)

Studies on Fruit Respiration. By H. C. Gore, assistant chemist, Division of Foods. Pp. 40, figs. 17. (Bulletin 142, Bureau of Chemistry.)

The Food Laws of the United Kingdom and Their Administration. By F. L. Dunlap, associate chemist. Pp. 42. (Bulletin 143, Bureau of Chemistry.)

Legislation relating to Farmers' Institutes in the United States. By John Hamilton, farmers' institute specialist. Pp. 47. (Bulletin 241, Office of Experiment Stations.)

Experiment Station Record, Vol. XXIV, index number. E. W. Allen, Ph. D., editor. Pp. 801-898.

Same, Vol. XXV, No. 2, August, 1911. Pp. 101–200. Same, Vol. XXV, No. 3, abstract number. Pp. 201–300.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, eight numbers each, at \$1 per volume. Current numbers are not sold separately.

Relation of Light Chipping to the Commercial Yield of Naval Stores. By Charles H. Herty, expert, Forest Service. Pp. 36, pls. 3, figs. 13. (Bulletin 90, Forest Service.)

Monthly Bulletin of the Library. (Library accessions.) June, 1911, Vol. 2. No. 6. Pp. 161-184.

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The Rusts of Grains in the United States. By E. M. Freeman, collaborator. and Edward C. Johnson, physiologist in charge of cereal disease work, grain investigations. Pp. 87, pl. 1, figs. 2. (Bulletin 216, Bureau of Plant Industry.)

Relation of Drought to Weevil Resistance in Cotton. By O. F. Cook, bionomist.

Pp. 30. (Bulletin 220, Bureau of Plant Industry.)

Timothy Rust in the United States. By Edward C. Johnson, pathologist. Pp. 20. (Bulletin 224, Bureau of Plant Industry.)

A Spot Disease of Cauliflower. By Lucia McCulloch, scientific assistant, laboratory of plant pathology. Pp. 15, pls. 3. (Bulletin 225, Bureau of Plant Industry.)

Descriptive Catalogue of the Road Model Exhibit. Prepared by Office of Public

Roads. Pp. 20, pls. 14, fig. 1. (Bulletin 36, Office of Public Roads.)

CIRCULARS.

Rule 9.—Revoking the Quarantine to Prevent the Spread of Lip-and-leg Ulceration (Necrobacillosis) in Sheep. P. 1. (B. A. I. Order 181.) Notice regarding the Interstate Movement of Cattle, Sheep, and Swine Which

are Affected with Lip-and-leg Ulceration (Necrobacillosis). P. 1. (Miscel-

laneous, Bureau of Animal Industry.)

The Manimals of Bitterroot Valley, Montana, in Their Relation to Spotted Fever. By Henry W. Henshaw, Chief, Biological Survey, and Clarence Birdseye, assistant, Biological Survey. Pp. 24, figs. 12. (Circular 82, Biological Survey.)

Directory of Officials and Organizations Concerned with the Protection of Birds

and Game, 1911. Pp. 16. (Circular 83, Biological Survey.)

The Determination of Camphor. P. 1. (Circular 77, Bureau of Chemistry.) Deterioration of Eggs as Shown by Changes in the Moisture Content. By A. D. Greenlee, Food Research Labratory. Pp. 7, figs. 2. (Circular 83, Bu-

reau of Chemistry.)

"Colombian Mahogany" (Cariniana pyriformis). Its Characteristics and Its Use as a Substitute for True Mahogany (Swietenia mahogoni). By George B. Sudworth, dendrologist, and Clayton D. Mell, assistant dendrologist, Forest Service. With a description of the botanical characters of Cariniana Pyriformis, by Henry Pittier, Bureau of Plant Industry. Pp. 16, figs. 11. (Circular 185, Forest Service.)

Consumption of Wood Preservatives and Quantity of Wood Treated in the United States in 1910. By H. S. Sackett, Chief, Office of Wood Utilization.

(Circular 186, Forest Service.)

By Coert DuBois, associate district National Forest Fire-protection Plans.

forester, district 5. Pp. 8, map. (Miscellaneous, Forest Service.)

Crop Plants for Paper Making. By Charles J. Brand, physiologist in charge of paper-plant investigations. Pp. 19, figs. 3. (Circular 82, Bureau of Plant

Preliminary Report on the Klamath Marsh Experiment Farm. By Carl S. Scofield, agriculturist in charge of western agricultural extension, and Lyman J. Briggs, physicist, in charge of physical investigations. Pp. 10. (Circular 86, Bureau of Plant Industry.)

Publications of the Library. Pp. 3. (Circular 18, Division of Publications.) Monthly List of Publications, July, 1911. Pp. 4. (Document 741, Division of

Publications.)

The Department of Agriculture in Relation to a National Law to Prevent the Importation of Insect-infected or Diseased Plants. By James Wilson, Secretary of Agriculture. Pp. 11. (Circular 37, Secretary's Office.)

Soils of the Eastern United States and Their Use—XII. The Clarksville Silt Loam. By Jay A. Bonsteel, Scientist in Soil Survey. Pp. 15. (Circular 30,

Bureau of Soils.)

Same, XIII. The Memphis Silt Loam. By Jay A. Bonsteel. Pp. 15. (Circular 35, Bureau of Soils.)

Same, XIV. The Fargo Clay Loam. By Jay A. Bonsteel. Pp. 16. (Circular 36, Bureau of Soils.)

Same, XV. The Clyde Loam. By Jay A. Bonsteel. Pp. 16. (Circular 37, Bureau of Soils.)

Same, XVI. The Dekalb Silt Loam. By Jay A. Bonsteel. Pp. 17. (Circular 38, Bureau of Soils.)

Same, XVII. The Porters Loam and Porters Black Loam. By Jay A. Bonsteel. Pp. 19. (Circular 39, Bureau of Soils.)

Same, XVIII. The Wabash Silt Loam. By Jay A. Bonsteel. Pp. 15. (Circular 40, Bureau of Soils.)

Crop Reporter, Vol. 13, No. 8, August, 1911. Pp. 57-64. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statis-

Foreign Crops, July, 1911. Prepared by Charles M. Daugherty, Chief, Division of Research and Reference. Pp. 15. (Circular 21, Bureau of Statistics.)

Tobacco Report, July 1, 1911. Prepared by J. P. Killebrew, Special Agent for

Tobacco. Pp. 8. (Circular 22, Bureau of Statistics.)

FARMERS' BULLETINS.

Red Clover. By J. M. Westgate, agronomist in charge of clover investigations, Bureau of Plant Industry; F. H. Hillman, assistant botanist, Bureau of Plant Industry; and F. M. Webster, in charge of cereal and forage insect investigations, Bureau of Entomology. Pp. 48, figs. 25. (Farmers' Bulletin

This bulletin gives the history, distribution, and description of red clover, its adaptability to various soils and climates, directions for obtaining a stand, and handling the crop. It contains information as to its value as a feed, in mixtures and rotations, its effect on the land, the production of seed, varieties, insect enemies, etc.

The Best Two Sweet Sorghums for Forage. By A. B. Conner, scientific assistant, forage crop investigations, Bureau of Plant Industry. Pp. 23, figs. 7. (Farmers' Bulletin 458.)

This bulletin describes several varieties of sorghum, contains statements as to the factors limiting its growth, methods for growing, yields, growing with cowpeas, harvesting, curing, storing, feeding, marketing, etc.

Frames as a Factor in Truck Growing. By W. R. Beattie, assistant horticulturist, Bureau of Plant Industry. Pp. 29, figs. 12. (Farmers' Bulletin 460.)

This bulletin describes different kinds of frames used in truck growing, the preparation of the soil, fertilizing, watering, ventilation, protection of the frames, etc., and makes suggestion as to the kind of crops successfully grown under such frames.

The Sanitary Privy. By C. W. Stiles, consulting zoologist, Bureau of Animal Industry, and L. L. Lumsden, Passed Asst. Surg., United States Public Health and Marine-Hospital Service. Pp. 32, figs. 9. (Farmers' Bulletin 463.)

This bulletin deals with the causes and effects of soil pollution and the sanitary importance of its prevention; and gives instructions and estimates for the construction and maintenance of a sanitary privy upon the farm.

Game Laws for 1911. A summary of the provisions relating to seasons, shipments, sale, limits, and licenses. By Henry Oldys, C. E. Brewster, and Frank L. Earnshaw, assistants, Biological Survey. Pp. 52, figs. 2. (Farm-

A summary of the provisions relating to seasons, shipments, sale, limits, licenses, etc., for game in the United States and Canada. This bulletin supersedes F. B. 418.

SEPARATES.

NEW.

The Management of Second Growth Sprout Forests. By Henry S. Graves,

forester. Pp. 157-168. (Separate 525, Yearbook, 1910.)

The Agricultural Duty of Water. By W J McGee, soil water expert, Bureau of Soils. Pp. 169-176. (Separate 526, Yearbook, 1910.)

Community Work in the Rural High School. By Dick J. Crosby, specialist in agricultural education, Office of Experiment Stations, and B. H. Crocheron, principal Agricultural High School of Baltimore County, Md. Pp. 177-188A. pls. 4. (Separate 527, Yearbook, 1910.)

Nitrogen-gathering Plants. By Karl F. Kellerman, physiologist in charge soil bacteriology investigations, Bureau of Plant Industry. Pp. 213–218, pls. 8. (Separate 530, Yearbook, 1910.)

Some of the More Important Ticks of the United States. By W. D. Hunter and F. C. Bishopp, of the Bureau of Entomology. Pp. 219–230, pls. 2. (Sepa-

rate 531, Yearbook, 1910.)

Progress in Saving Forest Waste. By William L. Hall, assistant forester.

Pp. 255-264, pls. 3. (Separate 534, Yearbook, 1910.)

Progress and Present Status of the Good Roads Movement in the United States. By Logan Waller Page, Director, Office of Public Roads. Pp. 265–274. (Separate 535, Yearbook, 1910.)

Insect Enemies of Tobacco in the United States. By A. C. Morgan, agent and expert, Bu. of Ent. Pp. 281–296, pl. 1, figs. 13. (Separate 537, Yearbook, 1910.)

The Respiration Calorimeter and the Results of Experiments with It. By C. F. Langworthy and R. D. Milner, nutrition investigations, Office of Experiment Stations. Pp. 307–318, pls. 2. (Separate 539, Yearbook, 1910.)

Injuries to Forests and Forest Products by Roundheaded Borers. By J. L. Webb, agent and expert, forest insect investigations, Bureau of Entomology.

Pp. 341-358, pl. 1, figs. 11. (Separate 542, Yearbook, 1910.)

The Value of the Shellfish Industry and the Protection of Oysters from Sewage Contamination. By George W. Stiles, jr., bacteriological chemist, Bureau of Chemistry. Pp. 371–378, pls. 2. (Separate 544, Yearbook, 1910.)

The Migratory Movements of Birds in Relation to the Weather. By Wells W. Cooke, assistant, Biol. Surv. Pp. 379–390, fig. 1. (Separate 545, Yearbook, 1910.) Cooperation in the Handling and Marketing of Fruit. By G. Harold Powell,

pomologist and acting chief, Bureau of Plant Industry. Pp. 391-406. Separate 546, Yearbook, 1910.)

Mountain Snowfall Observations and Evaporation Investigations in the United States. By Frank H. Bigelow, United States Weather Bureau. Pp. 407-412,

pl. 1. (Separate 547, Yearbook, 1910.)

Fire Prevention and Control on the National Forests. By F. A. Silcox, associate district forester. Pp. 413–424, pls. 6. (Separate 548, Yearbook, 1910.) Promising New Fruits. By William A. Taylor, Pomologist and assistant chief,

Bureau of Plant Industry. Pp. 425–436, pls. 8. (Separate 549, Yearbook, 1910.) The Precooling of Fruit. By A. V. Stubenrauch, expert in charge of fruit transportation and storage investigations, and S. J. Dennis, expert in refrigeration, Bureau of Plant Industry. Pp. 437–448, pls. 5. (Separate 550,

Yearbook, 1910.)

Camphor Cultivation in the United States. By S. C. Hood, scientific assistant, and R. H. True, physiologist in charge, Office of Drug-plant Investigations, Bureau of Plant Industry. Pp. 449–460, pls. 3. (Separate 551, Yearbook, 1910.)

The Effect of the Present Method of Handling Eggs on the Industry and the Product. By M. E. Pennington and H. C. Pierce, food research laboratory, Bureau of Chemistry. Pp. 461–476, pl. 1. (Separate 552, Yearbook, 1910.) Soils of the Atlantic and Gulf Coastal Plains Province. Pp. 15–72, figs. 2.

(Separate from Bulletin 78, Bureau of Soils.)

Changes in Classification Involving Change in Soil Name. Pp. 253–280. (Separate from Bulletin 78, Bureau of Soils.)

PUBLICATIONS OF THE WEATHER BUREAU.

[Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted.]

National Weekly Weather Bulletin, Nos. 21, 22, 23, 24, for August, 1911. Price 25 cents a year.

Jos. A. Arnold, Editor and Chief.

Approved.

James Wilson,

Secretary of Agriculture.

This circular will be sent regularly to all who apply for it.

lo. 743.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

Washington, D. C., September 30, 1911.

MONTHLY LIST OF PUBLICATIONS.

[SEPTEMBER, 1911.]

NOTE.—Application for the publications in this list should be made to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C. The editions of many of the publications are necessarily limited, and when the supply is exhausted and no funds are available for procuring additional copies, applicants must be referred to the Superintendent of Documents, Government Printing Office, who has them for sale at a nominal price, under the law of January 12, 1895. Applications made by librarians or others checking this list should always give plainly the name and address of the applicant, not merely a library number.

ADVANCE SHEETS, BUREAU OF SOILS.

Soil Survey of the Livermore Area, California. By H. L. Westover and Cornelius Van Duyne. Pp. 64, pl. 1, fig. 1, map. (From F. O. Soils, 1910.)
Soil Survey of Bulloch County, Georgia. By Charles N. Mooney, R. B. Hardison, David D. Long, and W. C. Byers. Pp. 52, fig. 1, map. (From F. O. Soils, 1910.) 1910.)

Soil Survey of Sumter County, Georgia. By J. C. Britton and F. S. Welsh. Pp.

47, fig. 1, map. (From F. O. Soils, 1910.)

Soil Survey of Concordia Parish, Louisiana. By Charles J. Mann, E. B. Watson, Percy O. Wood, and Risden T. Allen. Pp. 35, fig. 1, map. (From F. O. Soils, 1910.)

REPORTS.

NEW.

Annual Report of the Office of Experiment Stations for the Year Ended June

30, 1910. Pp. 512, pls. 29, figs. 8.

Annual Report of Alaska Agricultural Experiment Stations for 1910. C. C. Georgeson, Special Agent in Charge, under the Supervision of Office of Experiment Stations, U. S. Department of Agriculture. Pp. 85, pls. 13.

BULLETINS.

NEW.

The Milk Supply of Chicago and Washington. By George M. Whitaker, in Charge of Market Milk Investigations, Dairy Division. Pp. 40, pls. 8, figs. 6. (Bulletin 138, Bureau of Animal Industry.)

Fattening Poultry. By Alfred R. Lee, Junior Animal Husbandman, Animal Husbandry Division. Pp. 60, pls. 4, figs. 2. (Bulletin 140, Bureau of Animal

Industry.)

The Improvement of the Farm Egg. By Harry M. Lamon and Charles L. Opperman, Junior Animal Husbandmen, Animal Husbandry Division. Pp. 43,

pls. 4, figs. 2. (Bulletin 141, Bureau of Animal Industry.)
Revision of the Spiny Pocket Mice (Genera Heteromys and Liomys). By Edward A. Goldman, Field Naturalist, Biological Survey. Pp. 70, pls. 3, figs. 6. (North American Fauna 34, Bureau of Biological Survey.)

Woodpeckers in Relation to Trees and Wood Products. By W. L. McAtee, Assistant Biologist, Biological Survey. Pp. 99, pls. 12, figs. 44. (Bulletin 39, Biological Survey.)

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Papers on Cereal and Forage Insects. I. The Lesser Clover-leaf Weevil. By F. M. Webster, in Charge of Cereal and Forage Insect Investigations. II. The Slender Seed-corn Ground-beetle. By W. J. Phillips, Agent and Expert. III. The Clover-root Curculio. By V. L. Wildermuth, Agent and Expert. IV. The Sorghum Midge. By W. Harper Dean, Agent and Expert. V. The New Mexico Range Caterpillar. By C. N. Ainslie, Agent and Expert. VI. Contributions to a Knowledge of the Corn Root-aphis. By R. A. Vickery, Agent and Expert. VII. The Smoky Crane-fly. By James A. Hyslop, Agent and Expert. VIII. The Cowpea Curculio. By George G. Ainslie, Entomological Assistant. Pp. 162, pls. 5, figs. 69. (Bulletin 85, Bureau of Entomology.)

Experiments on the Processing of Persimmons to Render Them Nonastringent. By H. C. Gore, Assistant Chemist, Division of Foods, Bureau of Chemistry, with an introduction by David Fairchild, Agricultural Explorer, in Charge of Foreign Seed and Plant Introduction, Bureau of Plant Industry. Pp. 31, pls.

3, figs. 5. (Bulletin 141, Bureau of Chemistry.)

Experiment Station Record. Vol. XXV, No. 4, September, 1911. E. W. Allen, Ph. D., Editor. Pp. 301-400.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, eight numbers each, at \$1 per volume. Current numbers are not sold separately.

Leguminous Crops for Hawaii. By F. G. Krauss, Agronomist. Pp. 31, pls. 8. (Bulletin 23, Hawaii Agricultural Experiment Station, under the Supervision

of Office of Experiment Stations, U. S. Department of Agriculture.)

California Tanbark Oak. Part I. Tanbark Oak and Tanning Industry. By Willis Linn Jepson, Collaborator. Part II. Utilization of the Wood of Tanbark Oak. By H. S. Betts, Engineer in Timber Tests. Appendix. Distribution of Tannin in Tanbark Oak. By C. D. Mell, Assistant Dendrologist. Pp. 34, pls. 10. (Bulletin 75, Forest Service.)

Windbreaks: Their Influence and Value. By Carlos G. Bates, Forest Assistant. Pp. 100, pls. 20. (Bulletin 86, Forest Service.)

Grazing and Floods: A Study of Conditions in the Manti National Forest, Utah. By Robert V. R. Reynolds, Forest Examiner. Pp. 16, frontispiece, pls. 5. (Bulletin 91, Forest Service.)

Monthly Bulletin of the Library (Library accessions), Vol. 2, No. 7, July, 1911.

Pp. 187–206.

Examination and Classification of Rocks for Road Building, Including the Physical Properties of Rocks with Reference to Their Mineral Composition and Structure. By Edwin C. E. Lord, Petrographer, Office of Public Roads. Pp. 28, pls. 10, fig. 1. (Bulletin 37, Office of Public Roads.) Highway Bridges and Culverts. By Charles H. Hoyt, in Charge of Bridge En-

gineering, Office of Public Roads, and William H. Burr, Consulting Engineer, Office of Public Roads. Pp. 22, pls. 14, figs. 3. (Bulletin 39, Office of Public

Roads.)

Examination of Soils for Organic Constituents, Especially Dihydroxystearic Acid. By Oswald Schreiner, Scientist in Charge of Fertility Investigations, and Elbert C. Lathrop, Scientist in Fertility Investigations. Pp. 33, pls 2. (Bulletin 80, Bureau of Soils.)

CIRCULARS.

NEW.

List of Accredited Veterinary Colleges. Pp. 2. (Circular 150-A, Bureau of Animal Industry.)

Animals Imported for Breeding Purposes for Which Certificates of Pure Breeding Have Been Issued by the Bureau of Animal Industry: Horses, April 1 to June 30, 1911. Pp. 11. (Miscellaneous, Bureau of Animal Industry.)

Three Important Wild Duck Foods. By W. L. McAtee, Assistant, Biological Survey. Pp. 19, figs. 19. (Circular S1, Bureau of Biological Survey.)

Distribution of the American Egrets. By W. W. Cooke, Assistant, Biological

Survey. Pp. 5, figs. 2. (Circular 84, Bureau of Biological Survey.)

Studies on Chicken Fat. I. The Occurrence and Permanence of Lipase in the Fat of the Common Fowl (Gallus domesticus). By M. E. Pennington and J. S. Hepburn, Food Research Laboratory. II. The Oxidation of Chicken Fat by Means of Hydrogen Peroxid. By Joseph S. Hepburn, Food Research Laboratory. Pp. 11. (Circular 75, Bureau of Chemistry.)

Determination of Malic Acid. By P. B. Dunbar and R. F. Bacon, Assistant Chemists, Division of Foods. Pp. 12. (Circular 76, Bureau of Chemistry.)

Tin Salts in Canned Foods of Low Acid Content, with Special Reference to Canned Shrimp. By W. D. Bigelow and R. F. Bacon. Pp. 6. (Circular 79, Bureau of Chemistry.)

Two New Pieces of Chemical Apparatus. By R. F. Bacon and P. B. Dunbar, Assistant Chemists, Division of Foods. Pp. 3. (Circular 80, Bureau of

Chemistry.)

The Action of Drugs under Pathological Conditions. By William Salant, Chief, Pharmacological Laboratory, Division of Drugs. Pp. 16. (Circular 81, Bureau of Chemistry.)

The Fluorescent Test for Mineral and Rosin Oils. By Percy H. Walker and E. W. Boughton, Contracts Laboratory. Pp. 2. (Circular S4, Bureau of

Chemistry.)

The Indian-meal Moth and "Weevil-cut" Peanuts. By C. H. Popenoe, Entomological Assistant, Truck Crop and Stored Product Insect Investigations. Pp. 6, fig. 1. (Circular 142, Bureau of Entomology.)

The National Forest Manual. Trespass. Issued by the Secretary of Agriculture to take effect September 1, 1911. Pp. 23. (Miscellaneous, Forest

Service.)

Forage Crops for the Sand-hill Section of Nebraska. By H. N. Vinall, Assistant Agrostologist, Forage-crop Investigations. Pp. 23, figs. 7. (Circular 80,

Bureau of Plant Industry.)

Description of the Comprehensive Catalogue of Botanical Literature in the Libraries of Washington. By Alice C. Atwood, Bibliographical Assistant, Office of Taxonomic and Range Investigations. Pp. 7. (Circular 87, Bureau of Plant Industry.)

Monthly List of Publications, August, 1911. Pp. 4. (Document 742, Division

of Publications.)

Foreign Crops, August, 1911. Prepared by Charles M. Daugherty, Chief of the Division of Research and Reference. Pp. 14. (Circular 23, Bureau of Statistics.)

Crop Reporter, Vol. 13, No. 9, September, 1911. Pp. 65-72. (Bureau of Sta-

tistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

FARMERS' BULLETINS.

NEW

The Utilization of Logged-off Land for Pastures in Western Oregon and Western Washington. By Byron Hunter, Agriculturist, Office of Farm Management, and Harry Thompson, Expert, Office of Farm Management. Pp. 20, figs. 5. (Farmers' Bulletin 462.)

This bulletin gives the area of unimproved logged-off land in the western parts of Washington and Oregon, the excessive cost of clearing such lands for farm crops, etc., suggests methods for the management of these lands for pasture, and names a number of pasture plants suitable for growing under such conditions and the kind of stock for pasturing.

The Eradication of Quack-grass. By J. S. Cates, Assistant Agriculturist, Office of Farm Management, Bureau of Plant Industry. Pp. 11, figs. 6. (Farmers' Bulletin 464.)

This bulletin describes the rootstocks of quack-grass or witch-grass, some types of quack-grass lands, and gives directions for the eradication of this grass.

SEPARATES.

NEW.

Bituminous Dust Preventives and Road Binders. By Prévost Hubbard, Chemist, Office of Public Roads. Pp. 297-306. (Separate 538, from Yearbook, 1910.)

Agricultural Statistics. Pp. 499-713. (Separate 553, from Yearbook, 1910.) Irrigation Investigations, 1910. By Samuel Fortier, Chief, Irrigation Investiga-

tions. Pp. 37-43. (Document 1385, from O. E. S. An. Rpt. 1910.)

Work of Drainage Investigations, 1909–1910. By R. D. Marsden, Office Engineer, Drainage Investigations. Pp. 43–54. (Document 1386, from O. E. S. An. Rpt. 1910.)

Statistics of Land-Grant Colleges and Agricultural Experiment Stations, 1910. Compiled by Miss M. T. Spethmann. Pp. 271-314. (Document 1388, from

O. E. S. An. Rpt. 1910.)

'The Farmers' Institutes in the United States, 1910. By John Hamilton, Farmers' Institute Specialist, Office of Experiment Stations. Pp. 387-424. ment 1390, from O. E. S. An. Rpt. 1910.)

The Results of Agricultural Extension in Belgium. By J. M. Stedman, Assistant Farmers' Institute Specialist, Office of Experiment Stations. Pp. 425–447.

(Document 1391, from O. E. S. An. Rpt. 1910.)

Origin and Development of the Nutrition Investigations of the Office of Experiment Stations. By C. F. Langworthy, Expert in Charge of Nutrition Investigations of the Office of Experiment Stations. Pp. 449-460. (Document 1392, from O. E. S. An. Rpt. 1910.)

Soils of the River Flood Plains Province. Pp. 207-252, figs 2. (From Soils

Bulletin 78.)

PUBLICATIONS OF THE WEATHER BUREAU.

[Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices

Monthly Weather Review, Vol. 39, No. 5. May, 1911. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 649-813, figs. 6, maps 2, charts 7. (W. B. No. 460.) Price, 35 cents a year.

Same, Vol. 39, No. 6. June, 1911. Pp. 815-971, maps 2, charts 7. (W. B. No.

461.)

National Weekly Weather Bulletin, Nos. 25, 26, 27, 28, for September, 1911. Price, 25 cents a year.

For educational purposes, or for reproduction for use in newspapers or periodicals, photographs of anything which has appeared in any publication of this department can be furnished to applicants. A charge will be made for these photographs which covers, approximately, the cost of the material, and which will be made known on application. Photographs of all the ordinary kinds are included in this offer.

Electrotypes of any illustrations which have appeared in the publications of this department since 1908 can be supplied to applicants on an order from the Division of Publications, by the firms which make them for the department, the cost being about 5 cents per square inch, payable to the maker on receipt of the cuts.

It is expected that due credit will be given to the Department of Agriculture when these illustrations are used.

these illustrations are used.

Jos. A. Arnold, Editor in Chief.

Approved:

JAMES WILSON, Secretary of Agriculture.

This circular will be sent regularly to all who apply for it. No. 744.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

Washington, D. C., October 31, 1911.

MONTHLY LIST OF PUBLICATIONS.

[OCTOBER, 1911.]

NOTE.—Application for the publications in this list should be made to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C. The editions of many of the publications are necessarily limited, and when the supply is exhausted and no funds are available for procuring additional copies, applicants must be referred to the Superintendent of Documents, Government Printing Office, who has them for sale at a nominal price, under the law of January 12, 1895. Applications made by librarians or others checking this list should aiways give plainly the name and address of the applicant, not merely a library number.

ADVANCE SHEETS, BUREAU OF SOILS.

Soil Survey of Dale County, Ala. By Lewis A. Hurst and R. W. Rowe, of the United States Department of Agriculture, and A. D. Cameron, of the Alabama Department of Agriculture and Industries. Pp. 39, fig. 1, map. (From F. O. Soils, 1910.)

Soil Survey of Maryville Area, Cal. By A. T. Strahorn, W. W. Mackie, H. L. Westover, L. C. Holmes, and Cornelius Van Duyne. Pp. 56, pl. 1, fig. 1, map.

(From F. O. Soils, 1910.)

Soil Survey of the Jacksonville Area, Fla. By Grove B. Jones and James E. Ferguson. Pp. 26, fig. 1, map. (From F. O. Soils, 1910.)

Soil Survey of Ellis County, Tex. By Frank Bennett, R. T. Avon Burke, and Clarence Lounsbury. Pp. 34, fig. 1, map. (From F. O. Soils, 1910.)

Reconnaissance Soil Survey of the Panhandle Region of Texas. By William T. Carter, jr., and party. George N. Coffey, Inspector in Charge. Pp. 59, pls. 6, fig. 1, map. (From F. O. Soils, 1910.)

Bulletins.

NEW.

The Influence of Type and of Age upon the Utilization of Feed by Cattle. Investigations in cooperation with the Institute of Animal Nutrition of the Pennsylvania State College. By Henry Prentiss Armsby and J. August Fries. Pp. 245, pls. 3, figs. 17. (Bulletin 128, Bureau of Animal Industry.)

Birds of Arkansas. By Arthur H. Howell, Assistant Biologist, Biological Survey. Pp. 100, pls. 7, figs. 4. (Bulletin 38, Biological Survey.)

Carbon Tetrachlorid as a Substitute for Carbon Bisulphid in Fumigation against Insects. By F. H. Chittenden, in Charge of Truck Crop and Stored Product Insect Investigations, and C. H. Popenoe, Entomological Assistant. Pp. 53-57. (Bulletin 96, Part 4, Bureau of Entomology.)

The California Peach Borer. By Dudley Moulton, formerly Special Agent, Deciduous Fruit Insect Investigations. Pp. 65-89, pls. 3, fig. 1. (Bulletin 97,

Part 4, Bureau of Entomology.)

Tidal Marshes and Their Reclamation. By George M. Warren, Drainage Engineer. Prepared under the direction of C. G. Elliott, Chief of Drainage Investigations. Pp. 99, pls. 16, figs. 21. (Bulletin 240, Office of Experiment Stations.)

Experiment Station Record, Vol. XXV, No. 5, October, 1911. E. W. Allen,

Ph. D., Editor. Pp. 401-500.

Same, Vol. XXV, No. 6, Abstract Number. Pp. 501-600.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, eight numbers each, at \$1 per volume. Current numbers are not sold separately.

Coyote-proof Inclosures in Connection with Range Lambing Grounds. By James T. Jardine, Inspector of Grazing. Pp. 32, pls. 2, figs. 3. (Bulletin 97, Forest Service.)

Uses of Commercial Woods of the United States. II. Pines. By William L. Hall, Assistant Forester, and Hu Maxwell, Expert. Pp. 96. (Bulletin 99,

Forest Service.)

Distinguishing Characteristics of North American Gumwoods, Based on the Anatomy of the Secondary Wood. By George B. Sudworth, Dendrologist, and Clayton D. Mell, Assistant Dendrologist. Pp. 20, figs. 9. (Bulletin 103, Forest Service.)

Monthly Bulletin of the Library. (Library accessions.) Vol. 2, No. 8, August,

1911. Pp. 208–234.

Arrangement of Parts in the Cotton Plant. By O. F. Cook and Rowland M. Meade, Crop Acclimatization and Adaptation Investigations. Pp. 26, pls. 9. (Bulletin 222, Bureau of Plant Industry.)

Marketing Grain and Live Stock in the Pacific Coast Region. By Frank Andrews, Statistical Scientist and Assistant Chief of Division of Production and

Distribution. Pp. 94. (Bulletin 89, Bureau of Statistics.)

Imports of Farm and Forest Products, 1908-1910, by Countries from Which Consigned. Prepared in Division of Production and Distribution. Pp. 80.

(Bulletin 90, Bureau of Statistics.)

Exports of Farm and Forest Products, 1908–1910, by Countries to Which Consigned. Prepared in Division of Production and Distribution. Pp. 96. (Bulletin 91, Bureau of Statistics.)

REPRINTS.

Studies on the Biology of the Texas-fever Tick. (Bulletin 130, Bureau of Animal Industry.)

Beef Production in Alabama. (Bulletin 131, Bureau of Animal Industry.)

A Preliminary Study of the Effects of Cold Storage on Eggs, Quail, and Chickens. (Bulletin 115, Bureau of Chemistry.)
Catalogue of Recently Described Coccidæ—III. (Bulletin 16, Part 4, Bureau

of Entomology.)

The Rearing of Queen Bees. (Bulletin 55, Bureau of Entomology.)

The Periodical Cicada. (Bulletin 71, Bureau of Entomology.)

Mechanical Tests of Pumping Plants in California. (Bulletin 181, Office of Experiment Stations.)

Tests of Internal-combustion Engines on Alcohol Fuel. (Bulletin 191, Office of Experiment Stations.)

Irrigation in North Dakota. (Bulletin 219, Office of Experiment Stations.)

Consolidated Rural Schools and Organization of a County System. (Bulletin 232, Office of Experiment Stations.)

Protection of Forests from Fire. (Bulletin 82, Forest Service.)

The Avocado, a Salad Fruit from the Tropics. (Bulletin 77, Bureau of Plant Industry.)

Orchard Fruits in the Piedmont and Blue Ridge Regions of Virginia and the South Atlantic States. (Bulletin 135, Bureau of Plant Industry.)

Promising Root Crops for the South. (Bulletin 164, Bureau of Plant Industry.) The Seedling Inarch and Nurse-plant Methods of Propagation. (Bulletin 202, Bureau of Plant Industry.)

Grimm Alfalfa and Its Utilization in the Northwest. (Bulletin 209, Bureau of

Plant Industry.) Descriptive Catalogue of the Road Model Exhibit. (Bulletin 36, Office of Public Roads.)

Highway Bridges and Culverts. (Bulletin 39, Office of Public Roads.)

CIRCULARS.

NEW.

Rules and Regulations for the Enforcement of the Food and Drugs Act. Fourth Revision. Pp. 20. (Circular 21, revised, Office of the Secretary.)

Conservation of the Soil. Address of President Taft before the National Conservation Congress, at Kansas City, Mo., September 25, 1911. Pp. 8. (Circular 38, Office of the Secretary.)

Methods and Results of Parailining Cheese. By C. F. Doane, Assistant Dairy-

man, Dairy Division. Pp. 16. (Circular 181, Bureau of Animal Industry.) Modifying Regulation 2, Section 4, Paragraph 1, regarding Recognized Breeds of Domestic Animals and Books of Record Across the Seas, and Regulation 2, Section 4, Paragraph 2, regarding the Recognition of Animals Registered in the Canadian National Records. (Amendment 5 to B. A. I. Order 175, Bureau of Animal Industry.)

Animals Imported for Breeding Purposes for Which Certificates of Pure Breeding Have Been Issued by the Bureau of Animal Industry. Cattle, April 1 to June 30, 1911. Pp. 15. (Miscellaneous, Bureau of Animal Industry.)

Changes Taking Place During the Spoilage of Tomatoes, with Methods for Detecting Spoilage in Tomato Products. By Raymond F. Bacon and P. B. Dunbar, Assistant Chemists, Division of Foods. Pp. 15. (Circular 78, Bureau of Chemistry.)

Suggestions to Prospective Forest Students. Pp. 4. (Circular 23, fifth revision,

Forest Service.)

Volatilization of Various Fractions of Creosote after Their Injection into Wood. By C. H. Teesdale, Engineer in Wood Preservation. Pp. 5, fig. 1. (Circular 188, Forest Service.)

Monthly List of Publications, September, 1911. Pp. 4. (Document 743, Di-

vision of Publications.)

The Picking and Handling of Peanuts. By W. R. Beattie, Assistant Horticulturist. Pp. 7. (Circular 88, Bureau of Plant Industry.) Organization of Department of Agriculture, 1911. Pp. 73. (Circular 1, Division

of Publications, revised to July 1, 1911.)

Naphthalene in Road Tars. I. The Effect of Naphthalene upon the Consistency of Refined Tars. By Prévost Hubbard, Chemist, Office of Public Roads, and Clifton N. Draper, Assistant Chemist, Office of Public Roads. Pp. 12, figs. 2. (Circular 96, Office of Public Roads.)

The Wabash Clay. By Jay A. Bonsteel, Scientist in Soil Survey. Pp. 16. (Cir-

cular 41, Bureau of Soils.)

The Trinity Clay. By Jay A. Bonsteel, Scientist in Soil Survey. Pp. 14. (Cir-

cular 42, Bureau of Soils.)

The Selection of Land for General Farming in the Gulf Coast Region East of the Mississippi River. By W. E. Tharp, Scientist in Soil Survey. Pp. 11. (Circular 43, Bureau of Soils.) The Norfolk Sand. By Jay A. Bonsteel, Scientist in Soil Survey. Pp. 19.

(Circular 44, Bureau of Soils.)

The Norfolk Sandy Loam. By Jay A. Bonsteel, Scientist in Soil Survey. Pp. 14. (Circular 45, Bureau of Soils.)

The Orangeburg Fine Sandy Loam. By Jay A. Bonsteel, Scientist in Soil Sur-

vey. Pp. 20. (Circular 46, Bureau of Soils.)
Foreign Crops, September, 1911. Prepared by Charles M. Daugherty, Chief of the Division of Research and Reference. Pp. 15. (Circular 24, Bureau of Statistics.)

Crop Reporter, Vol. 13, No. 10, October, 1911. Pp. 73-80. (Bureau of Statis-

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

FARMERS' BULLETINS.

NEW.

The Use of Concrete on the Farm. Prepared by the Office of Public Roads. (Farmers' Bulletin 461.) Pp. 23, figs. 10.

This bulletin is issued to supersede Farmers' Bulletin 235, on the same subject, and contains directions for the selection of materials and the manufacture of concrete, rules for measurement, the proper forms to use, etc.

Experiment Station Work, LXV. Compiled from Publications of the Agricultural Experiment Stations. Pp. 24, figs. S. (Farmers' Bulletin 465.)

CONTENTS: Cost of available nitrogen-Management of marsh soils-Weeder harrow for dry farms—V-shaped cotton-stalk cutter—Storage for root crops—Danger in feeding root crops—Sanitary care of swine—Individuality of the cow—Hatching and rearing turkeys.

The Control of the Chestnut Bark Disease. By Haven Metcalf, Pathologist in Charge, Investigations in Forest Pathology, and J. Franklin Collins, Forest Pathologist, Investigations in Forest Pathology, Bureau of Plant Industry. Pp. 24, figs. 4. (Farmers' Bulletin 467.)

This bulletin gives the history and distribution of the chestnut bark disease, the financial losses from it, its cause and symptoms, the means of its spread and entrance into new localities, and suggests methods for its control.

SEPARATES.

NEW.

Work and Expenditures of the Agricultural Experiment Stations for the Year Ended June 30, 1910. By E. W. Allen and J. I. Schulte. Pp. 61-269, pls. 11, (Document 1387, from Annual Report of the Office of Experiment Stations, 1910.)

Progress in Agricultural Education, 1910. By Dick J. Crosby, specialist in agricultural education, Office of Experiment Stations. Pp. 315-386, pls. 9, (Document 1389, from Annual Report of the Office of Experiment Stations, 1910.)

Irrigation under the Carey Act. By A. P. Stover. Pp. 461-488, pls. 2. (Document 1393, from Annual Report of the Office of Experiment Stations, 1910.)

The Guam Agricultural Experiment Station and Its Work for the Fiscal Year 1910. By John B. Thompson, special agent in charge. Pp. 503-512, pls. 3, (Document 1395, from Annual Report of the Office of Experiment Stations, 1910.)

PUBLICATIONS OF THE WEATHER BUREAU.

[Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices

Bulletin of the Mount Weather Observatory. Prepared under the direction of Willis L. Moore, chief, U. S. Weather Bureau. Pp. 25-102, figs. 22, charts 6. (W. B. No. 462.) Price 25 cents; \$1 a year.

Monthly Weather Review, vol. 39, No. 7, July, 1911. Prepared under the direction of Willis L. Moore, chief, U. S. Weather Bureau. Pp. 973–1134, figs. 16, maps 2, charts 8. (W. B. No. 464.) Price 35 cents; \$4 a year.

National Weekly Weather Bulletin for the week ending October 2, 1911, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. Price 25 cents a year.

For educational purposes, or for reproduction for use in newspapers or periodicals, photographs of anything which has appeared in any publication of this department can be furnished to applicants. A charge will be made for these photographs which covers, approximately the cost of the material, and which will be made known on application. Photographs of all the ordinary kinds are included in this offer.

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Jos. A. Arnold, Editor and Chief.

Approved:

JAMES WILSON, Secretary of Agriculture.

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

Washington, D. C., November 30, 1911.

MONTHLY LIST OF PUBLICATIONS.

[NOVEMBER, 1911.]

NOTE.—Application for the publications in this list should be made to the Editor in Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C. The editions of many of the publications are necessarily limited, and when the supply is exhausted and no funds are available for procuring additional copies, applicants must be referred to the Superintendent of Documents, Government Printing Office, who has them for sale at a nominal price, under the law of January 12, 1895. Applications made by librarians or others checking this list should always give plainly the name and address of the applicant, not merely a library number.

ADVANCE SHEETS, BUREAU OF SOILS.

Soil Survey of Baldwin County, Alabama. By W. E. Tharp, H. Jennings, and C. S Waldrop, of the U. S. Department of Agriculture, and W. L. Lett, P. H. Avary, and L. Cantrell, of the Alabama Department of Agriculture and Industries. Pp. 74, fig. 1, maps 2. (From F. O. Soils, 1909.)

Soil Survey of the Madera Area, California. By A. T. Strahorn, H. L. Westover, L. C. Holmes, E. C. Eckmann, J. W. Nelson, and Cornelius Van Duyne. Pp. 43, pl. 1, fig 1, map. (From F. O. Soils, 1910.)

Soil Survey of Walker County, Georgia. By W. E. McLendon. Pp. 42, fig. 1,

map. (From F. O. Soils, 1910.)

Soil Survey of Rockcastle County, Kentucky. By R. T. Avon Burke, Frank Bennett, and Clarence Lounsbury. Pp. 36, fig. 1, map. (From F. O. Soils, 1910.)

Soil Survey of Adams County, Mississippi. By W. J. Geib, of the U. S. Department of Agriculture, and A. L. Goodman, of the Mississippi Geological Survey.

Pp. 32, fig. 1, map. (From F. O. Soils, 1910.)

Soil Survey of Marion County, Missouri. By J. C. Britton, of the U. S. Department of Agriculture, and E. S. Vanatta, of the University of Missouri. Pp. 26, fig. 1, map. (From F. O. Soils, 1910.)

REPORTS.

NEW.

Influence of Saccharin on the Nutrition and Health of Man. Report of the Referee Board of Consulting Scientific Experts. Influence of Saccharin on Digestion, Metabolism, Nutrition, and General Health. By Christian A. Herter. Effect of Saccharin on the Health, Nutrition, and General Metabolism of Man. By Otto Folin. Pp. 375. (Report 94, Office of the Secretary.) Report of the Librarian, 1911. Pp. 29.

Report of the Chief of the Weather Bureau, 1911. Pp. 42.

Report of the Chief of the Bureau of Chemistry, 1911. Pp. 59. Report of the Chief of the Bureau of Biological Survey, 1911. Pp. 19.

Report of the Appointment Clerk, 1911. Pp. 13.

Report of the Editor, 1911. Pp. 27.

Report of the Chief of the Bureau of Plant Industry, 1911. Pp. 98.

Report of the Chief of the Bureau of Soils, 1911. Pp. 21.

Report of the Director of the Office of Experiment Stations. Pp. 29.

Report of the Chief of the Bureau of Entomology, 1911. Pp. 42.

Report of the Chief of the Bureau of Statistics, 1911. Pp. 14.

BULLETINS.

NEW.

Enological Studies. The Chemical Composition of American Grapes Grown in Ohio, New York, and Virginia. By William B. Alwood, Enological Chemist. Pp. 35. (Bulletin 145, Bureau of Chemistry.) 18340°—11

'Analyses of Sugar Beets, 1905 to 1910, together with Methods of Sugar Determination. By A. Hugh Bryan, Chief, Sugar Laboratory. Pp. 48, frontispiece, pl. 1, figs. 5. (Bulletin 146, Bureau of Chemistry.)

Notes on the Peach and Plum Slug. By R. A. Cushman, Agent and Expert, Deciduous Fruit Insect Investigations. Pp. 91–102, pl. 1, figs. 3.

97, Part 5, Bureau of Entomology.)

The Fig Moth. By F. H. Chittenden, in Charge of Truck Crop and Stored Product Insect Investigations. Report on the Fig Moth in Smyrna. By E. G. Smyth, Entomological Assistant. Pp. 65, pls. 16, figs. 4.

104, Bureau of Entomology.)

The Rocky Mountain Spotted Fever Tick. With Special Reference to the Problem of Its Control in the Bitter Root Valley in Montana. By W. D. Hunter, in Charge of Southern Field Crop Insect Investigations, and F. C. Bishopp, Entomological Assistant. (In cooperation with the Biological Survey and the Montana Agricultural College.) Pp. 47, pls. 3, figs. 2. 105, Bureau of Entomology.)

The Hawaiian Beet Webworm. By H. O. Marsh, Agent, Engaged in Sugar-beet and Truck-crop Insect Investigations. (With Appendix by H. G. Dyar and F. H. Chittenden.) Pp. 1-15, pls. 2, figs. 2. (Bulletin 109, Part 1, Bureau

of Entomology.)

The Southern Beet Webworm. By F. H. Chittenden, in Charge of Truck Crop and Stored Product Insect Investigations. Pp. 17-22, fig. 1. (Bulletin 109.

Part 2, Bureau of Entomology.)

County Schools of Agriculture and Domestic Economy in Wisconsin. By A. A. Johnson, Principal, La Crosse County School of Agriculture and Domestic Economy. Pp. 24, pls. 5, fig. 1. (Bulletin 242, Office of Experiment Stations.) Land Drainage by Means of Pumps. By S. M. Woodward, Drainage Engineer,

Drainage Investigations. Prepared under the direction of C. G. Elliott, Chief of Drainage Investigations. Pp. 44, pls. 5, figs. 3. (Bulletin 243,

Office of Experiment Stations.)
Relation of Calcareous Soils to Pineapple Chlorosis. By P. L. Gile, Chemist.
Under the supervision of Office of Experiment Stations, U. S. Department of Agriculture. Pp. 45, pls. 2. (Bulletin 11, Porto Rico Agricultural Experi-

ment Station.)

The Crater National Forest: Its Resources and Their Conservation. By Findley Burns, Chief of Publications, Forest Service. Pp. 20, pls. 4. (Bulletin 100. Forest Service.)

Reforestation in the National Forests. Part I.—Collection of Seed. Part II.— Direct Seeding. By William T. Cox, Assistant Forester. Pp. 57, pls. 6, figs. 5. (Bulletin 98, Forest Service.) Western Yellow Pine in Arizona and New Mexico. By Theodore S. Woolsey,

jr., Assistant District Forester, District 3. Pp. 64, pls. 4, figs. 12. (Bulletin

101, Forest Service.)

Monthly Bulletin of the Library, Vol. 2, No. 9, September, 1911. Pp. 237-260. Root-knot and Its Control. By Ernst A. Bessey, Professor of Botany, Michigan Agricultural College, and Collaborator, Bureau of Plant Industry. Pp. 89, pls. 3, figs. 3. (Bulletin 217, Bureau of Plant Industry.)

Dimorphic Leaves of Cotton and Allied Plants in Relation to Heredity. By O. F. Cook, Bionomist in Charge of Crop Acclimatization and Adaptation Investigations. Pp. 59, pls. 5, figs. 18. (Bull. 221, Bureau of Plant Industry.)

Seeds and Plants Imported during the Period from July 1 to September 30. 1910: Inventory No. 24; Nos. 28325 to 28880. Pp. 70. (Bulletin 223, Bureau of Plant Industry.)

Seeds and Plants Imported during the Period from October 1 to December 31, 1910: Inventory No. 25; Nos. 28883 to 29327. Pp. 60. (Bulletin 227, Bureau

of Plant Industry.)

Organic Compounds and Fertilizer Action. By Oswald Schreiner, Scientist in Charge of Fertility Investigations, and J. J. Skinner, Scientist in Fertility Investigations. Pp. 31, pls. 2, figs. 5. (Bulletin 77, Bureau of Soils.)

The Effect of Soluble Salts on the Physical Properties of Soils. By R. O. E. Davis, Scientist in Physical Laboratory Investigations. Pp. 38, pls. 6, figs. 21. (Bulletin 82, Bureau of Soils.)

Russian Cereal Crops. Area and Production by Governments and Provinces. By Edward T. Peters, Division of Research and Reference. Pp. 99, pl. 1. (Bulletin 84, Bureau of Statistics.)

REPRINTS.

The Diagnosis of Glanders by Complement Fixation. (Bulletin 136, Bureau of Animal Industry.)

Fattening Poultry. (Bulletin 140, Bureau of Animal Industry.)

The Improvement of the Farm Egg. (Bulletin 141, Bureau of Animal Industry.) Insects Affecting Domestic Animals: An Account of the Species of Importance in North America, with Mention of Related Forms Occurring on Other Animals. (Bulletin 5, new series, Bureau of Entomology.)
Report on the Field Work against the Gipsy Moth and the Brown-tail Moth.

(Bulletin 87, Bureau of Entomology.)

Scrub Pine. (Bulletin 94, Forest Service.)

CIRCULARS.

NEW.

Rule 1, Revision 8.—To prevent the Spread of Splenetic, Southern, or Texas

Fever in Cattle. Pp. 11. (Order 183, Bureau of Animal Industry.)
The Spontaneous Oxidation of Arsenical Dipping Fluids. By Aubrey V. Fuller,
Assistant Chemist, Biochemic Division. Pp. 8. (Circular 182, Bureau of Animal Industry.)

An Index to Circulars 1 to 100 of the Bureau of Entomology. By Rolla P. Currie and Andrew N. Caudell. Pp. 49. (Cir. 100, Bureau of Entomology.)

Avalanches and Forest Cover in the Northern Cascades. By Thornton T.

Munger, Forest Assistant. Pp. 12, pls. 3. (Circular 173, Forest Service.)

Manufacture and Utilization of Hickory, 1911. By Charles F. Hatch, Statistician in Forest Products. Pp. 16. (Circular 187, Forest Service.)

A Visual Method for Determining the Penetration of Inorganic Salts in Treated

Wood. By E. Bateman, Chemist in Forest Products. Pp. 5, fig. 1. (Circular 190, Forest Service.)

The Prevention of Sap Stain in Lumber. By Howard F. Weiss, Assistant Director, Forest Products Laboratory, and Charles T. Barnum, Engineer in Wood Preservation. Pp. 19, figs. 4. (Circular 192, Forest Service.)

Have You a More Productive Corn than First-generation Cross No. 182? Pp. 4, figs. 2. (Document 589, Bureau of Plant Industry.)

Publications of the Office of the Secretary, Office of the Solicitor, and the Division of Publications. Pp. 4. (Circular 9, revised, Division of Publications.) Publications of the Office of Experiment Stations. Pp. 11. (Circular 17, re-

vised. Division of Publications.) Publications of the library. Pp. 3. (Cir. 18, revised, Division of Publications.) Monthly List of Publications. October, 1911. Pp. 4. (Document 744, Division

of Publications.) The Orangeburg Sandy Loam. By Jay A. Bonsteel, Scientist in Soil Survey. (Circular 47, Bureau of Soils.)

The Orangeburg Fine Sand. By Jay A. Bonsteel, Scientist in Soil Survey. Pp. (Circular 48, Bureau of Soils.)

Meat Inspection Law. Lard Substitute Composed of Vegetable Oils and Imported Oleo Stearin. Pp. 4. (Circular 56, Office of the Solicitor.)

Crop Reporter, Vol. 13, No. 11, November, 1911. Pp. 81–88. (Bureau of

Statistics.)

Government Crop Reports: Their Value, Scope, and Preparation. Pp. 16. (Circular 17, revised, Bureau of Statistics.)

Foreign Crops, October, 1911. Prepared by Charles M. Daugherty, Chief of the Division of Research and Reference. Pp. 16. (Circular 25, Bureau of Statistics.)

REPRINTS.

Deterioration of Eggs as Shown by Changes in the Moisture Content. cular 83, Bureau of Chemistry.)

The Bedbug. (Circular 47, Bureau of Entomology.)

The Chinch Bug. (Circular 113, Bureau of Entomology.)

FARMERS' BULLETINS.

- Winter Emmer. By Mark Alfred Carlton, Cerealist in Charge of the Office of Grain Investigations, Bureau of Plant Industry. Pp. 24, figs. 8. (Farmers' Bulletin 466.)
- Experiment Station Work, LXVI. Compiled from the Publications of the Agricultural Experiment Stations. Pp. 24, figs. 9. (Farmers' Bulletin 469.)

 Contents: Lawns—Fertilizing asparagus—Turnips for sheep—Loss of lambs—Cost of market milk—Propagation of starters—The plastered silo.
- Tuberculosis. A Plain Statement of Facts regarding the Disease. Prepared Especially for Farmers and Others Interested in Live Stock, by the International Commission of the American Veterinary Medical Association on the Control of Bovine Tuberculosis. Pp. 23, figs. 13. (Farmers' Bulletin 473.)
- The Use of Paint on the Farm. By Percy H. Walker, Chief, Contracts Laboratory, Bureau of Chemistry. Pp. 22, fig. 1. (Farmers' Bulletin 474.)

SEPARATES.

NEW.

Development of Methods of Draining Irrigated Lands. By C. G. Elliott, Chief of Drainage Investigations. Pp. 489-501, pls. 4, figs. 7. (O. E. S. Doc. 1394. From Annual Report of the Office of Experiment Stations, 1910.)

REPRINTS.

How Birds Affect the Orchard. (Yearbook Separate 197.)
The Economic Value of the Bobwhite. (Yearbook Separate 309.)
The Rabbit as a Farm and Orchard Pest. (Yearbook Separate 452.)
Pocket Gophers as Enemies of Trees. (Yearbook Separate 506.)

PUBLICATIONS OF THE WEATHER BUREAU.

- [Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted.]
- Monthly Weather Review, Vol. 39, No. 8, August, 1911. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 1135-1300, figs. 6, maps 2, charts 7. (W. B. No. 465.) Price 35 cents. \$4 a year.
- National Monthly Weather Bulletin for October, 1911, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. No. 30. Price 25 cents a year.

EARLIER PUBLICATIONS AVAILABLE FOR DISTRIBUTION.

Agriculture in the Central Part of the Semiarid Portion of the Great Plains. (Bul. 215, Bureau of Plant Industry.)

The Substitution of Lime-Sulphur Preparations for Bordeaux Mixture in the Treatment of Apple Diseases. (Cir. 54, Bureau of Plant Industry.)

American Export Corn (Maize) in Europe. (Cir. 55, Bureau of Plant Industry.)

The Separation of Seed Barley by the Specific Gravity Method. (Cir. 62, Bureau of Plant Industry.)

A Review of the Phosphate Fields of Florida. (Bul. 76, Bureau of Soils.) The Use of Alkaline Waters for Irrigation. (Cir. 10, Bureau of Soils.) The Status of the American Lemon Industry. (Yearbook Separate 453.)

The Causes of Southern Rural Conditions and the Small Farm as an Important Remedy. (Yearbook Separate 483.)

The Farmers' Cooperative Demonstration Work. (Yearbook Separate 501.) Conditions Influencing the Production of Sugar-beet Seed in the United States. (Yearbook Separate 503.)

Approved:

James Wilson, Secretary of Agriculture. Jos. A. Arnold, Editor and Chief.

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

Washington, D. C., December 30, 1911.

MONTHLY LIST OF PUBLICATIONS.

[DECEMBER, 1911.]

NOTE.—Application for the publications in this list should be made to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C. The editions of many of the publications are necessarily limited, and when the supply is exhausted and no funds are available for procuring additional copies, applicants must be referred to the Superintendent of Documents, Government Printing Office, who has them for sale at a nominal price, under the law of January 12, 1895. Applications made by librarians or others checking this list should always give plainly the name and address of the applicant, not merely a library number.

ADVANCE SHEETS, BUREAU OF SOILS.

Soil Survey of Pike County, Ala. By W. E. Tharp, of the United States Department of agriculture, and W. L. Lett and W. E. Wilkinson, of the Alabama Department of Agriculture and Industries. Pp. 67, fig. 1, map. (From F. O. Soils, 1910.)

Soil Survey of Cabarrus County, N. C. By Risden T. Allen, of the United States Department of Agriculture, and E. W. Thornton and Hubert Hill, of the North Carolina Department of Agriculture. Hugh H. Bennett, inspector

in charge. Pp. 47, fig. 1, map. (From F. O. Soils, 1910.) Soil Survey of Erie County, Pa. By Gustavus B. Maynadier, of the United States Department of Agriculture, and Floyd S. Bucher, of the Pennsylvania State College. Pp. 52, fig. 1, map. (From F. O. Soils, 1910.)

Soil Survey of Washington County, Pa. By F. S. Welsh and Floyd S. Bucher, of the United States Department of Agriculture, and D. K. Sloan, of the

Pennsylvania State College. Pp. 34, fig. 1, map. (From F. O. Soils, 1910.) Reconnoissance Soil Survey of the Central Gulf Coast Area of Texas. By William T. Carter, jr., and party. George N. Coffey, inspector in charge. Pp. 75, pls. 8, fig. 1, map. (From F. O. Soils, 1910.)

Soil Survey of the Point Pleasant Area, West Virginia. By W. J. Latimer and Charles N. Mooney. Pp. 50, fig. 1, maps 2. (From F. O. Soils, 1910.)
Soil Survey of Noxubee County, Miss. By Howard C. Smith and W. J. Geib, of the United States Department of Agriculture, and A. L. Goodman, E. M. Lange, and W. M. Spann, of the Mississippi Caelesical Survey W. M. Jones, and W. M. Spann, of the Mississippi Geological Survey. Hugh H. Bennett, inspector in charge. Pp. 46, fig. 1, map. (From F. O. Soils, 1910.)

REPORTS.

NEW.

Report of the Secretary of Agriculture. 1911. Pp. 162. Soils of the Prairie Regions of Alabama and Mississippi and Their Use for Alfalfa. Part I. Houston Clay and Associated Soils. By Hugh H. Bennett, scientist in soil survey, Bureau of Soils. Part II. Alfalfa on the Houston Clay: Its Culture and Management. By M. A. Crosby, assistant agriculturist, Bureau of Plant Industry. Pp. 48, pls. 7, figs. 4. (Report No. 96, Office of the Secretary.)

Report of the Chief of the Division of Accounts and Disbursements for 1911. By A. Zappone. Pp. 67. (From Annual Reports, Department of Agriculture.) Report of the Chief of the Bureau of Animal Industry for 1911. By A. D.

(From Annual Reports, Department of Agriculture.) Report of the Director of the Office of Public Roads for 1911. By Logal Waller (From Annual Reports, Department of Agriculture.) Page. Pp. 48.

Report of the Solicitor for 1911. By Geo. P. McCabe. Pp. 192. (From Annual Reports, Department of Agriculture.)

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BULLETINS.

NEW.

Varieties of Cheese: Description and Analyses. By C. F. Doane, assistant dairyman, Dairy Division, and H. W. Lawson, Office of Experiment Stations, Department of Agriculture. Pp. 78. (Bulletin 146, Bureau of Animal Industry.)

Report on Condition of Elk in Jackson Hole, Wyo., in 1911. By Edward A. Preble, assistant, Biological Survey. Pp. 23, pls. 7. (Bulletin 40, Biological Survey.) Wood Turpentine: Its Production, Refining, Properties, and Uses. By F. P.

Veitch, chief, leather and paper laboratory, and M. G. Donk, assistant chemist. Pp. 76, figs. 4. (Bulletin 144, Bureau of Chemistry.)

Chinch-bug Investigations West of the Mississippi River. By E. O. G. Kelly and T. H. Parks, entomological assistants. Pp. 52, pls. 2, figs. 5. (Bulletin

95, part 3, Bureau of Entomology.)

Calosoma Sycophanta: Its Life History, Behavior, and Successful Colonization in New England. By A. F. Burgess, expert in charge of breeding experi-

ments. Pp. 94, pls. 9, figs. 22. (Bulletin 101, Bureau of Entomology.)
Results of the Artificial Use of the White-fungus Disease in Kansas: With Notes on Approved Methods of Fighting Chinch Bugs. By Frederick H. Billings, associate professor of botany and bacteriology, and Pressley A. Glenn. assistant professor of entomology, University of Kansas. Pp. 58, pls. 5, figs 4. (Bulletin 107, Bureau of Entomology.)

The Avocado in Hawaii. By J. E. Higgins, horticulturist, Chester J. Hunn, assistant horticulturist, and Valentine S. Holt, assistant in horticulture. Pp. 48, pls. 7, figs. 13. (Bulletin 25, Hawaii Agricultural Experiment Station.) Experiment Station Record, Vol. XXV, No. 7, November, 1911. E. W. Allen,

Pp. 601-700.

Ph. D., editor. Pp. 601-700. Same, Vol. XXV, No. S, December, 1911. Pp. 701-800.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, eight numbers each, at \$1 per volume. Current numbers are not sold separately.

The Identification of Important North American Oak Woods, Based on a Study of the Anatomy of the Secondary Wood. By George B. Sudworth, dendrologist, and Clayton D. Mell, assistant dendrologist. Pp. 56, figs. 48. (Bulle-

tin 102, Forest Service.)

American Medicinal Leaves and Herbs. By Alice Henkel, assistant, drug-plant investigations. Pp. 56, figs. 36. (Bulletin 219, Bureau of Plant Industry.) The Road Material Resources of Minnesota. By George W. Cooley, secretary and engineer, Minnesota State Highway Commission, special agent, United States Office of Public Roads. Pp. 24, pls. 6. (Bulletin 40, Office of Public Roads.)

A Beneficial Organic Constituent of Soils: Creatinine. Introduction: Importance

of Beneficial Soil Constituents. By Oswald Schreiner, scientist in charge, fertility investigations. I. The Isolation of Creatinine from Soils. By Edmund C. Shorey, scientist in fertility investigations. II. The Origin of Creatinine in Soils. By M. X. Sullivan, scientist in fertility investigations. III. Effects of Creatinine on Growth and Absorption. By J. J. Skinner, scientist in fertility investigations. Pp. 44, pls. 3. (Bulletin 83, Bureau of Soils.)

The Cost of Producing Minnesota Dairy Products. 1904-1909. By Thomas P. Cooper, assistant in farm management, Minnesota Agricultural Experiment Station, special agent, Bureau of Statistics, United States Department of Agriculture. Pp. 84, pls. 2, figs. 13. (Bulletin 88, Bureau of Statistics.)

REPRINTS.

Unfermented Apple Juice. (Bulletin 118, Bureau of Chemistry.) Miscellaneous Papers on Apiculture. (Bulletin 75, Bureau of Entomology.) Contributions toward a Monograph of Scolitid Beetles. I. The Genus Dendroctonus. (Bulletin 17, Part I, Technical Series, Bureau of Entomology.) Technical Papers on Miscellaneous Forest Insects. I. Contributions toward a Monograph of the Bark-weevils of the Genus Pissodes. (Bulletin 20, Part I. Technical Series, Bureau of Entomology.)

Uses of Commercial Woods of the United States: I. Cedars, Cypresses, and Sequoias. (Bulletin 95, Forest Service.)

CIRCULARS.

NEW.

Directions for Constructing a Vat and Dipping Cattle to Destroy Ticks. By H. W. Graybill, assistant zoologist, Zoological Division, and W. P. Ellenberger, veterinary inspector, Inspection Division. Pp. 15, fig. 1. (Circular 183, Bureau of Animal Industry.)

The Army Remount Problem. By George M. Rommel, Chief of the Animal Husbandry Division. Pp. 103-124, pls. 5. (Circular 186, Bureau of Animal Industry. Reprinted from Annual Report of the Bureau of Animal Industry, 1910.)

Amendment 6 to B. A. I. Order 175, Modifying Regulation 2, Section 4, Paragraph 1, regarding the Recognized Breeds of the Domestic Animals and Books of Record across the Seas. P. 1.

Officials Charged with the Enforcement of Food Laws in the United States and Canada, revised to July 1, 1911. Pp. 48. (Circular 16, Revised, Bureau of Chemistry.)

The Unification of Reducing Sugar Methods. (A Correction.) By Percy H. Walker, Chief, Contracts Laboratory. Pp. 6. (Circular 82, Bureau of Chemistry.)

The Refractive Index of Beeswax. By L. Feldstein, Contracts Laboratory.

Pp. 3. (Circular 86, Bureau of Chemistry.)

A Modification in the Determination of Malic Acid. By David S. Pratt, assistant chemist, Division of Foods. Pp. 2. (Circular 87, Bureau of Chemistry.)

Drainage of the Wet Lands of Effingham County, Ga. By F. G. Eason, drainage engineer. Prepared under the direction of C. G. Elliott, chief of drainage investigations. Pp. 24, figs. 3. (Circular 113, Office of Experiment Stations.)

List of State Directors of Farmers' Institutes and Farmers' Institute Lecturers of the United States. Pp. 14. (Circular 114, Office of Experiment Stations.) Modification of the Sulphonation Test for Creosote. By E. Bateman, chemist Pp. 7, fig. 1. (Circular 191, Forest Service.) in forest products.

Suggested Cropping Systems for the Black Lands of Texas. By B. Youngblood, assistant agriculturist, Office of Farm Management. Pp. 21, figs. 13. cular 84, Bureau of Plant Industry.)

An Effective Method for Preventing the Erosion of Hill Lands. Pp. 7, figs. 5. (Document 706, Bureau of Plant Industry.)

Publications of the Bureau of Biological Survey. Pp. 3. (Circular 8, revised, Division of Publications.)

Publications of the Office of Public Roads. Pp. 3. (Circular 10, revised, Division of Publications.)

Publications of the Forest Service. Pp. 3. (Circular 11, revised, Division of Publications.)

Publications of the Bureau of Statistics. Pp. 5. (Circular 12, revised, Division of Publications.)

Publications of the Bureau of Plant Industry. Pp. 16. (Circular 13, revised, Division of Publications.)

Publications of the Bureau of Soils. Pp. 7. (Circular 14, revised, Division of Publications.) Publications of the Bureau of Animal Industry. Pp. 8. (Circular 15, revised,

Division of Publications.) Publications of the Bureau of Entomology. Pp. 9. (Circular 16, revised, Divi-

sion of Publications.) Monthly List of Publications, November, 1911. Pp. 4. (Document 748, Division

of Publications.) The Houston Clay. By Jay A. Bonsteel, scientist in soil survey. Pp. 11.

(Circular 49, Bureau of Soils.) Crop Reporter, volume 13, No. 12, December, 1911. Pp. 89-96. (Bureau of Statistics.)

The Crop Reporter is a two-page quarto publication devoted to agricultural statistics.

FARMERS' BULLETINS.

NEW.

Forestry in Nature Study. By Edwin R. Jackson, expert, Forest Service. Pp. 43, figs. 13. (Farmers' Bulletin 468.)

This bulletin contains outlines for courses of forestry in the different school grades, with a number of supplementary experiments, suggestions for field trips, a forest calendar, a forest museum, etc. The appendix contains lists of books for supplementary reading and reference and a key to the common kinds of trees.

Grape Propagation, Pruning, and Training. By George C. Husmann, pomologist in charge of viticultural investigations, field investigations in pomology, Bureau of Plant Industry. Pp. 29, figs. 30. (Farmers' Bulletin 471.)

This bulletin contains directions for the propagation of the grape from seed, cuttings, layering, and grafting; the care and training of young vines, the different methods of pruning, forms of trellises, etc., with remarks on the principal grape regions of the United States.

Systems of Farming in Central New Jersey. By George A. Billings and J. C. Beavers, assistant agriculturists, Office of Farm Management, Bureau of Plant Industry. Pp. 40, figs. 11. (Farmers' Bulletin 472.)

This bulletin contains tables showing precipitation and killing frosts in central New Jersey, gives details of the different crop rotations in use, and explains the management of a successful tenant farm of 175 acres under the four-crop system.

Ice Houses. By L. C. Corbett, horticulturist, Bureau of Plant Industry. Pp. 20, figs. 11. (Farmers' Bulletin 475.)

This bulletin is issued in response to numerous inquiries for information on the subject. It contains statements as to the sources of the ice supply, the principles of ice storage, ice harvesting and manufacture, types of ice houses, their construction, cost, etc.

The Dying of Pine in the Southern States: Cause, Extent, and Remedy. By A. D. Hopkins, in charge of forest insect investigations, Bureau of Entomology. Pp. 15, figs. 4. (Farmers' Bulletin 476.)

This bulletin describes the southern pine beetle and its destructive work, the losses from its depredations in the Southern States, and suggestions for control measures.

How to Prevent Typhoid Fever. By Logan Waller Page, John R. Mohler, and Erwin F. Smith. Pp. 8. (Farmers' Bulletin 478.)

This bulletin tells of the danger of typhoid and the various methods of infection, recommends sanitary measures, and discusses the use and value of antityphoid vaccine in its control.

SEPARATES.

NEW.

Live Stock and Miscellaneous Agricultural Statistics. 1910. Pp. 606-687. (Separate 554, from Yearbook of Department of Agriculture for 1910.)

Statistics of Principal Crops, 1910. Pp. 499-596. (Separate 555, from Year-book of Department of Agriculture for 1910.)

The Respiration Calorimeter. Recent Improvements and New Applications. By C. F. Langworthy and R. D. Milner, nutrition investigations, Office of Experiment Stations. Pp. 601–606. (O. E. S. Document 1409, from Experiment Station Record, Vol. 24 [1911], No. 7.)

PUBLICATIONS OF THE WEATHER BUREAU.

[Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted.]

Monthly Weather Review, volume 39, No. 9, September, 1911. Prepared under the direction of Willis L. Moore, Chief United States Weather Bureau. Pp. 1301-1466, maps 2, charts 7. (W. B. No. 468.)

Bulletin of the Mount Weather Observatory. Prepared under the direction of Willis L. Moore, Chief United States Weather Bureau. Pp. 103-181, charts 6, figs. 11. (W. B. No. 466.)

Jos. A. Arnold, Editor and Chief.

Approved:

James Wilson, Secretary of Agriculture.

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